



BUMI UNTUK
INDONESIA



KATALOG PRODUK

PT INDUSTRI TELEKOMUNIKASI INDONESIA (PERSERO)



IDENTIK DL02

Merupakan perangkat pembaca Kartu Tanda Penduduk Elektronik (KTP-el) dengan layar yang masing-masing komponennya terintegrasi dalam satu kesatuan sehingga dapat digunakan secara mandiri tanpa harus terhubung dengan perangkat komputer. Perangkat Identik DL02 dapat diintegrasikan dengan sistem eksisting lainnya yang memanfaatkan jaringan *ethernet* dengan kabel LAN sebagai konektivitasnya.

Pembacaan
KTP-el

Verifikasi
Biometrik

TKDN + BMP

48.77%

LED Indikator

Layar
Sentuh

Sertifikasi



BPPT (No.48/PTIK/HU/2/2015)



TKDN (No.2039/SJ-IND.8/TKDN/12/2020)



BSSN (No.011/PI/UJI.01/10/2021)

Anti-Temper

Koneksi
Ethernet

Manfaat & Keuntungan

- Peningkatan *security* dan verifikasi data KTP-el berbasis biometrik
- Dapat diintegrasikan untuk berbagai kebutuhan sistem atau aplikasi eksternal
- Perluasan pemanfaatan KTP-el secara elektronik
- Pelayanan menjadi *paperless*, tanpa adanya dokumen fisik
- Efisiensi dalam proses pelayanan administrasi data kependudukan atau data pelanggan
- Pemanfaatan layar untuk digital *signage* yang menampilkan profil perusahaan maupun informasi marketing lainnya

Dimensi

- **Ukuran Perangkat**
180mm x 180mm x 90mm (P x L x T)
- **Ukuran Kemasan**
230mm x 200mm x 150mm (P x L x T)
- **Berat**
1,4 Kg (termasuk kemasan dan aksesoris)

Spesifikasi

Smart Card Reader	
Tipe	: Contactless
Standar	: ISO 14443 A and B compliant
Frekuensi	: 13,56 MHz ± 7 KHz
Kuat Medan Operasi	: 1,5 A/m (rms) to 7,5 A/m (rms)
Jarak Transaksi	: Maksimum 5 cm
Inisialisasi dan anti <i>collision</i>	: ISO/IEC 14443-3
Bit Rate	: fc/128 (~ 106 kbit/s) fc/64 (~ 212 kbit/s) fc/32 (~ 424 kbit/s) fc/16 (~ 848 kbit/s)
Protokol Komunikasi	: T = CL
Slot Secure Access Module (SAM)	: Single SAM slots (SIM Type) (ISO 7816, T=0, T=1)
Otentikasi	: Mendukung otentikasi dua arah antara <i>smart card reader</i> dan chip
Temperatur	: -20 ~ 60° C

Fingerprint Scanner

Tipe Sensor	: Optical
Luas permukaan sensor	: 15,24 x 20,32 mm
Resolusi Pixel	: 500 dpi
Citra Keluaran	: 8 bit
Standar Sensor	: FBI PIV-071006 & Mobile ID FAP 20, INCITS 378, BioAPI, ISO/IEC 19794-2, ISO/IEC 19794-4, FCC, CE, RoHS, FIPS 201 (HSPD-12), STQC
Standar <i>Minutiae</i> Sidik Jari	: ISO.IEC 19794-2

Perangkat Komputasi

Prosesor	: 32 Bit ARM Processor Cortex A8 1GHz
Memori	: DDR3 SDRAM 512 MB / Nand Flash 1 GB
Layar Tampilan	: 4.3" TFT 18 bit (RGB) LCD <i>with</i> resistive touch screen
Resolusi Layar Tampilan	: 480 x 272 (RGB)
Data Interface	: Ethernet
Keamanan Perangkat	: Anti Tampering Feature

Catu Daya

Input Power	: 5V DC, 2A
AC Adapter	: 100 V to 240 V AC, 50 Hz/60 Hz
Battery	: 6800 mAh (<i>up to 4 hours</i>)



IDENTIK TL01

Merupakan perangkat pembaca Kartu Tanda Penduduk Elektronik (KTP-el) tanpa layar yang memiliki ukuran yang lebih minimalis sehingga mudah digunakan dalam kegiatan dengan mobilitas tinggi. Untuk menampilkan hasil pembacaan KTP-el perlu di koneksikan dengan perangkat lain seperti PC Desktop, Laptop, Tablet, atau *Smartphone* Android menggunakan Kabel USB, Bluetooth, Kabel LAN atau WIFI.

Pembacaan KTP-el	Verifikasi Biometrik	TKDN + BMP	50.19%
Anti-Temper	LED & Audio Indikator		
Koneksi Wireless	Android App	Ukuran Minimalis	Sertifikasi  BRIN BADAN RISET PADA INOVASI NASIONAL  Kementerian Perindustrian REPUBLIK INDONESIA  BPPT (No. 1/PTE/HU/08/2020) TKDN (No. 11116/SJ-IND.8/ TKDN/12/2021) BSSN (No. 018/P1/UJI.01/05/2022)

Manfaat & Keuntungan

- Peningkatan *security* dan verifikasi data KTP-el berbasis biometrik
- Dapat diintegrasikan untuk berbagai kebutuhan sistem atau aplikasi eksternal
- Perluasan pemanfaatan KTP-el secara elektronik
- Pelayanan menjadi *paperless*, tanpa adanya dokumen fisik
- Efisiensi dalam proses pelayanan administrasi data kependudukan atau data pelanggan
- Konektifitas yang beragam dapat disambungkan dengan berbagai perangkat *mobile* seperti tablet android atau *smartphone* android

Dimensi

- **Ukuran Perangkat**
176mm x 85mm x 42mm (P x L x T)
- **Ukuran Kemasan**
100mm x 200mm x 80mm (P x L x T)
- **Berat**
325g

Spesifikasi

Smart Card Reader	
Tipe	: Contactless
Standar	: ISO 14443 A and B compliant MIFARE™ ISO 18092 (NFC) DESFire FeliCa®
Frekuensi	: 13,56 MHz ± 7 KHz
Baudrate (kbit/s)	: 106, 212, 424, 848 kbps Up to 424 kbps for NFC communication
Kuat Medan Operasi	: 1,5 A/m (rms) to 7,5 A/m (rms)
Jarak Transaksi	: Maksimum 5 cm
Keamanan	: Memiliki mekanisme perlindungan keamanan terhadap SAM
Otentikasi	: Mendukung otentikasi dua arah antara <i>smart reader</i> dan chip
Protokol Komunikasi	: T=0, T=1, dan T=CL
Host Protocol	: PC/SC, Proprietary
Slot Secure Access Module (SAM)	: Single SAM Slots (SIM Type) (ISO 7816, T=0, T=1)
Indikator	: 2 LEDs

Temperatur : -10 ~ 60° C

Antena : *Direct matching (embedded)*

Fingerprint Scanner

Tipe Sensor : *Optical*

Luas permukaan sensor : 15,24 x 20,32 mm

Resolusi Pixel : 500 dpi

Citra Keluaran : 8 bit

Standar Sensor : FBI PIV-071006 & Mobile ID FAP 20, INCITS 378, BioAPI, ISO/IEC 19794-2, ISO/IEC 19794-4, FCC, CE, RoHS, FIPS 201 (HSPD-12), STQC

Standar *Minutiae* Sidik Jari : ISO/IEC 19794-2

Perangkat Komputasi

Prosesor : *Allwinner H3, Quad-Core Cortex-A7 Up to 1.2 GHz*

Memory : 512 MB DDR3 RAM

Storage : 8GB eMMC
Support MicroSD up to 32 GB

Audio Output : *Speaker dan Buzzer*

Data Interface : *Ethernet*
USB Mini-A Port
Bluetooth
Wifi

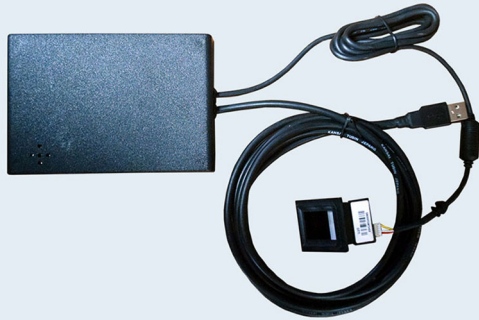
Supported Operating System : Windows, Android

Karakteristik Fisik Perangkat Terintegrasi

Keamanan Perangkat : *Anti Tampering Feature*

Catu Daya

Input Power : 5V (AC Power) dengan USB Mini-A



IDENTIK MD01

Merupakan perangkat pembaca Kartu Tanda Penduduk Elektronik (KTP-el) dalam bentuk modul terpisah namun tetap dalam satu kesatuan struktur yang terdiri dari modul *Smartcard Reader* dan *Biometric Fingerprint Scanner* yang dihubungkan melalui kabel USB. Manfaat perangkat ini agar mudah di implementasikan ke berbagai macam mesin seperti *ATM*, *Boarding Pass*, *Barrier Gate*, *Vending Machine*, *Self Service Machine (Kiosk)*, dan lain sebagainya.

Pembacaan
KTP-el

Verifikasi
Biometrik

TKDN + BMP

48.61%

Dilengkapi
API / SDK

Anti-Temper

Sertifikasi



BPPT (No . 1/PTE/HU/2/2021)



TKDN (No . 2842/SJ-IND.08/TKDN/6/2021)



BSSN (No . 007/P1/UJI.01/09/2021)

USB Power
Input

Manfaat & Keuntungan

- Peningkatan *Security* dan Verifikasi Data KTP-el berbasis biometrik
- Dapat diintegrasikan untuk berbagai kebutuhan sistem atau aplikasi eksternal
- Perluasan pemanfaatan KTP-el secara elektronik
- Pelayanan menjadi *Paperless*, tanpa adanya dokumen fisik
- Efisiensi dalam proses pelayanan administrasi data kependudukan atau data pelanggan
- Bentuk perangkat yang modular menjadikan mudah untuk di implementasikan ke berbagai jenis mesin lainnya

Dimensi

- **Ukuran Perangkat**
125 mm x 85 mm x 20 mm (P x L x T)
- **Ukuran Kemasan**
300 mm x 115 mm x 75 mm (P x L x T)
- **Berat**
120 g (hanya modul *smartcard*)
254 g (dengan modul *fingerprint* dan kabel)

Spesifikasi

Smart Card Reader	
Tipe	: Contactless
Standar	: ISO 14443 A and B compliant MIFARE™ ISO 18092 (NFC) DESFire FeliCa®
Frekuensi	: 13,56 MHz ± 7 KHz
Baudrate (kbit/s)	: 106, 212, 424, 848 kbps Up to 424 kbps for NFC communication
Kuat Medan Operasi	: 1,5 A/m (rms) to 7,5 A/m (rms)
Jarak Transaksi	: Maksimum 5 cm
Keamanan	: Memiliki mekanisme perlindungan keamanan terhadap SAM
Otentikasi	: Mendukung otentikasi dua arah antara <i>smart reader</i> dan chip
Protokol Komunikasi	: T=0, T=1, dan T=CL
Host Protocol	: PC/SC, Proprietary
Slot Secure Access Module (SAM)	: Single SAM slots (SIM Type) (ISO 7816, T=0, T=1)
Indikator	: 2 LEDs
Temperatur	: -10 ~ 60° C

Antena	: Direct matching (embedded)
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Fingerprint Scanner	
Tipe Sensor	: Optical
Luas permukaan sensor	: 15,24 x 20,32 mm
Resolusi Pixel	: 500 dpi
Citra Keluaran	: 8 bit
Standar Sensor	: FBI PIV-071006 & Mobile ID FAP 20, INCITS 378, BioAPI, ISO/IEC 19794-2, ISO/IEC 19794-4, FCC, CE, RoHS, FIPS 201 (HSPD-12), STQC
Standar Minutiae Sidik Jari	: ISO/IEC 19794-2

Perangkat Komputasi	
Prosesor	: Allwinner H3, Quad-core Cortex-A7 Up to 1.2 GHz
Memory	: 512 MB DDR3 RAM
Storage	: 8GB eMMC Support MicroSD up to 32 GB
Audio Output	: Speaker dan Buzzer
Data Interface	: USB Male Port

Supported Operating System	: Windows
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Karakteristik Fisik Perangkat Terintegrasi	
Keamanan Perangkat	: Anti Tampering Feature

Catu Daya	
Input Power	: DC 5V Through USB A, Max Power Consumption 500mA



IDENTIK AE01

Identik AE01 merupakan perangkat pembaca Kartu Tanda Penduduk Elektronik (KTP-el) dalam bentuk perangkat terpadu pembayaran elektronik (perangkat EDC) terintegrasi dengan aplikasi berbasis android. Hal ini memudahkan perangkat dalam proses pembayaran dengan verifikasi KTP-el berbasis biometrik (*fingerprint scanner*).

Pembacaan KTP-el	Verifikasi Biometrik	TKDN + BMP	41.91%
API / SDK App Android	Anti-Temper	LED & Audio Indikator	
EDC Integrated	Terminal Management System	Payment	

Sertifikasi

 **BRIN**
BADAN RISET
DAN INOVASI NASIONAL

 **Kementerian
Perindustrian**
REPUBLIK INDONESIA



BPPT (No . 01/PTE/HU/01/2018)

TKDN (No . 6473/SJ-IND.08/
TKDN/7/2021)

BSSN (No . 14/P1/UJI.01/11/2021)

Manfaat & Keuntungan

- *Digital payment services*, mendukung berbagai macam *merchant payment*.
- *Mobile portable* bisa dibawa tanpa kabel, tidak butuh komputer/PC.
- Anti temper (bila casing dibuka atau rusak, maka tidak bisa digunakan).
- *Compact*, mendukung banyak fungsi dalam satu perangkat (*mobile apps, magnetic card, smart card, contactless card, QRCode, biometric, print*).
- *Cashless*, mendukung berbagai jenis pembayaran, Kartu Debit, Kartu Kredit.
- Aplikasi berbasis android dapat ditanam langsung di perangkat.
- *Collected Data* untuk Big Data analitik.
- Bukti pembayaran langsung dapat dicetak di perangkat.
- Peningkatan *Security* dan Verifikasi Data KTP-el berbasis biometrik
- Perluasan pemanfaatan KTP-el secara elektronik
- Pelayanan menjadi *Paperless*, tanpa adanya dokumen fisik
- Efisiensi dalam proses pelayanan administrasi data kependudukan atau data pelanggan

Dimensi

- **Ukuran Perangkat**
200 mm x 87 mm x 56 mm (P x L x T)
- **Ukuran Kemasan**
300 mm x 115 mm x 75 mm (P x L x T)
- **Berat** : 855 g

Spesifikasi

Smart Card Reader	
Tipe	: Contactless
Standard	: ISO 14443 A and B compliant
Frekuensi	: 13,56 MHz $\pm$ 7 KHz
Kuat Medan Operasi	: 1,5 A/m (rms) to 7,5 A/m (rms)
Jarak Transaksi	: Maksimum 7 cm
Inisialisasi dan anti collision	: ISO/IEC 14443-3
Bit Rate	: fc/128(~106kbit/s) fc/64(~212kbit/s) fc/32(~424kbit/s) fc/16 (~ 848 kbit/s)
Protokol Komunikasi	: T = CL

Secure Access Module	
Slot Secure Access Module (SAM)	: 4 SAM slots (SIM Type) (ISO 7816, T=0, T=1)
Support Cardtype	: Supports 1.8v 3.3v 5v Card

Magnetic Card Reader	
Magnetic Card Reader	: 1 x Magnetic Card Reader ,Track 1/2/3, Bi-directional, ISO7810, ISO7811, ISO7813.

Smart Card Reader

Smart Card Reader	: 1 x Smart Card Reader, Supports 1.8V, 3.3V, 5V card, Supports Memory Card, CPU Card, EMV L1 & L2, PBOC3.0, ISO7816 standard.
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Fingerprint Scanner

Tipe Sensor	: Optical
Luas permukaan sensor	: 15.24 x 20.32 mm
Resolusi Pixel	: 500 dpi
Citra Keluaran	: 8 bit
Standar Sensor	: FBI PIV-071006 & Mobile ID FAP 20, INCITS 378, BioAPI, ISO/IEC 19794-2, ISO/IEC 19794-4, FCC, CE, RoHS, FIPS 201 (HSPD-12), STQC
Standar Minutiae Sidik Jari	: ISO.IEC 19794-2

Perangkat Komputasi

Processor	: A7, Quad-core, 1.1GHz
Memory	: 1GB DDR3 SDRAM, 8GB EMMC
Display/Layar Tampilan	: 5.5" 1280*720 pixel, LCD, backlight control, signal strength, battery status, Support multipoint capacitance touch, and touch operation
WIFI	: Standard: 802.11b/g/n
Mobile Communication	: Support GSM
Printer	: High-speed thermal printer; printing speed: 16 lines/s, paper width: (57.5±0.5)mm
Camera	: Sensor resolution: 5 Megapixel; image frame rate: 15fps or above; support auto-focusing

Physical Key	: 1 ON/OFF key, sound control key
LED	: 4 LED
Audio	: Support built-in speakers and audio play
GPS	: Support built-in GPS and Beidou, GLONASS, Galileo system, LBS positioning
Bluetooth	: Support BT4.0 BLE
Resolusi Layar Tampilan	: 720 x 1280 (RGB)
Port	: 1 Micro USB, USB 2.0HS standard 1 SIM card slot 4 PSAM card slot 1 Micro SD card slot, Supports up to 32GB
Supported Operating System	: Android 5.1 (Lollipop)
Environmental	: Working temperature: -15° ~ 55°, Relative humidity: 5% ~ 95% (non- condensation), Storage temperature: -20° ~ 60°

Karakteristik Fisik Perangkat Terintegrasi

Keamanan Perangkat	: Anti Tampering Feature
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Catu Daya

Baterai	: Long lasting lithium battery, 5000mAh, 3.7V
Input Power	: 5V 2A DC; Micro-USB standard charging port
AC Adapter	: 100 V to 240 V AC, 50 Hz/60 Hz

INTI DVBT2

INTI DVBT2 merupakan perangkat penerima siaran digital berbasis teknologi DVB-T2 yang merupakan *standard Digital Video Broadcasting Terrestrial* generasi kedua dan ditambahkan fitur EWS (*Early Warning System*).



TKDN + BMP

38.47%

Sertifikasi



TKDN (PTKDN-2220-2103203)



Kominfo (80825/SDPPI/2022)

Fitur

- Menerima siaran digital berbasis teknologi DVB-T2 ke perangkat lain melalui port HDMI dan AV.
- Menyimpan lebih dari 1000 saluran Televisi dan Radio secara otomatis dan manual.
- EPG untuk setiap saluran dengan 8 grup favorit berbeda.
- Mendukung *Logic Channel Number* (LCN).
- Mendukung *WiFi Dongle*.
- DLNA WiFi melalui telepon pintar.
- Mendukung sistem EWS (*Early Warning System*).
- USB PVR & Media Display.
- Mendukung format media player seperti MP4, MKV, AVI, FLV dan lain-lain.
- Pengaturan waktu secara otomatis dengan GMT dan manual.
- Youtube
- Cuaca

Dimensi

- **Ukuran Perangkat**
140mm x 80mm x 30mm (P x L x T)
- **Ukuran Kemasan**
190mm x 171mm x 50mm (P x L x T)
- **Berat** : 0,34 Kg (termasuk kemasan dan aksesoris)

Spesifikasi

Karakteristik Umum	
Tegangan input	: 100-240 VAC
Frekuensi input tegangan AC	: 50 Hz ± 2%
Temperatur	: 0-50 Celcius
Kelembapan	: 1,5 A/m (rms) to 7,5 A/m (rms)

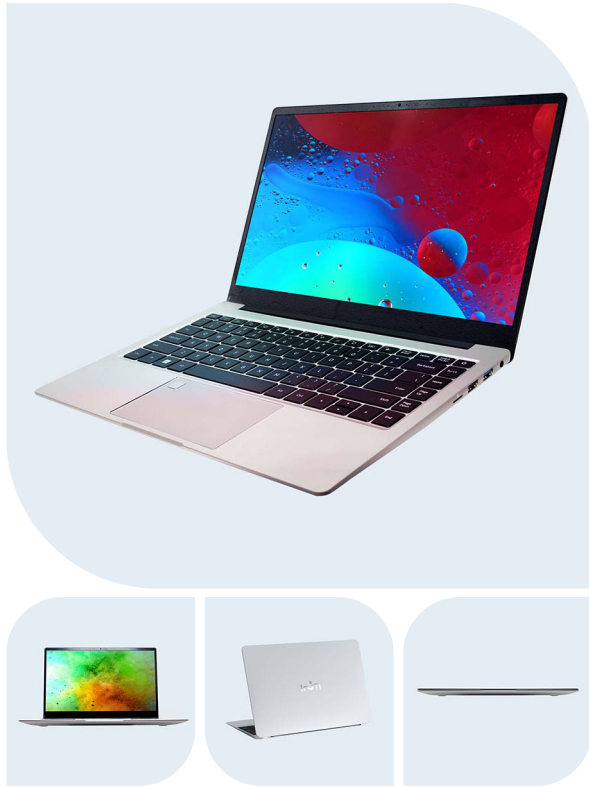
Tuner	
Jangkauan Frekuensi Input	: 478 – 694 MHz
Demodulation	: ISO.IEC 19794-2
Input signal Level	: -70 dBm s.d -25 dBm
Antena Input Impedance	: 75 Ω

Mode Operasi	
Video Decoder	: MPEG-4 (H.264)
Video Aspect Ratio	: Auto, 16:9 Widescreen, 16:9 Pillar Box, 16:9 Pan Scan, 4:3, 4:3 Pan Scan, 4:3 Letter Box
Resolution Video	: SDTV 720 x 576 HD 1280x720i HD 1280x720p HDTV 1920 x 1080i HDTV 1920 x 1080p
PAL/NTSC	: Otomatis
Audio Decoder	: MPEG I/II, MP3, MPEG4 AAC, HE-AAC, dan DRA decoding
Menu dan Bahasa EPG	: Bahasa Indonesia, Bahasa Inggris
Durasi EPG	: 7 (tujuh) hari
4) Input / Output Konektor	
Output RF Konektor	: IEC 61169-2 Male 75 Ω
Composite Video Out	: RCA Jack - 75 Ω
Audio Analog Out	: RCA Jack $\leq$ 10 k Ω
Output HDMI	: HDMI
Input RF Konektor	: IEC 61169-2 Female; 75 Ω

Input USB : USB

Firmware

Firmware Upgrade : USB



INTIBOOK

intibook adalah perangkat laptop yang berbasis Intel *Platform*, dengan kualitas material yang bagus untuk memenuhi kebutuhan pelanggan.

Iris Xe Core
Graphics

*Super
Battery Life
Travel Freely*

*Metal Case,
Ultra light,
thin and high
value*

5G dual-
band WiFi +
Bluetooth

*Lightspeed
Connection
and
Unimpeded*

*Office
Entertainment
Easy to
Master*

TKDN + BMP

35.94% (i5)
37.12% (i3)

Sertifikasi



TKDN (3291/SJ-IND.8/4/2024) (i5)

TKDN (3292/SJ-IND.8/4/2023) (i3)

Spesifikasi

Processor Type	: Variant: • Intel® Core™ i5 1135G7 Processor (Quad-Core) base frequency 2.4 GHz, 8Mb Cache • Intel® Core™ i3 1115G4 Processor (Dual-Core) 8M Cache, up to 4.40 GHz
Memory	: DDR4 8GB, upgradeable to 32GB (Optional)
Harddrive	: SSD 256GB upgradeable to 1TB (Optional)
Port	: 1x HDMI port
Networking	: • Integrated Wifi 802.11 a/b/g/n/ac/ax • Bluetooth
Webcam	: Integrated HD Camera
Audio Ports	: Built-in microphone, Stereo Speaker
Accessories	: 3 x USB Type A, 1 x USB Type C, Fingerprint
Graphic Type	: Integrated Intel Iris Xe Graphic
Display	: 14inch FHD (1920 x 1080)
Operating System	: Windows 11



INTI-AP102AX

INDOOR WI-FI 6 ACCESS POINT

INTI-AP102ax is an enterprise-grade, concurrent dual-band Wi-Fi 6 indoor access point. INTI-AP102ax supports 5G 4 x 4 : 4 uplink and downlink MU-MIMO between the AP and multiple clients, with up to 2.9 Gbps aggregated data rate. INTI-AP102ax can be operated as a standalone mode or managed by Cloud Controller and on Premise Controller.

TKDN + BMP
44.37%

Sertifikasi

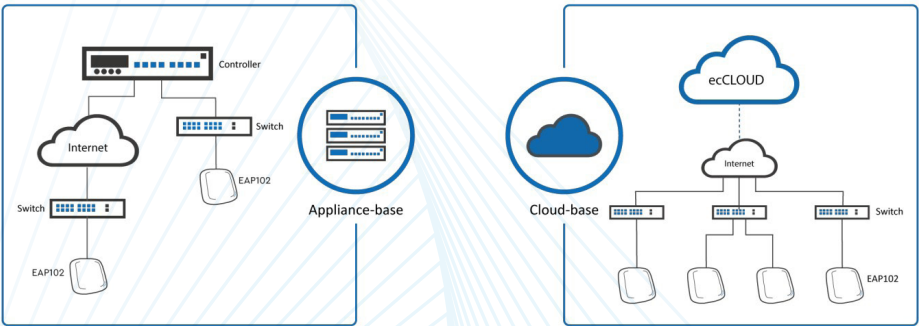


TKDN (5653/SJ-IND.8/TKDN/7/2023)

Highlights

- Concurrent Dual-Band 2.4GHz & 5GHz
- 802.11ax 4x4:4 UL MU-MIMO supporting up to 2.9 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security
- 802.3at Power over Ethernet (PoE)

Fitur



Spesifikasi

Physical	
Power	- DC Input: 12V / 2.0A (Power adapter included) - PoE: 802.3at compliant (PoE injector optional)
Dimensions (L x W x H)	: 19.5 cm x 20.1 cm x 3.98 cm (7.68 x 7.91 x 1.57 in)
Weight	: 0.7 kg (1.54 lbs)
Interface	- Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE - LAN: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 - Console: 1 x RJ-45 Port - USB: 2 x USB 2.0 Port^{†1}

LED Indicator	: Uplink / 2.4G-WiFi / 5G-WiFi / Power
Buttons	: Restart/ Reset
Environmental Conditions	- Operating Temperature: 0°C (32°F) to 45°C (113°F) - Operating Humidity: 5% to 95% non-condensing
Power Consumption	: 25W max ²
Antennas	- Type: 4 x Built-in antenna (2.4 GHz & 5 GHz) - Gain: 5.5dBi (2.4 GHz, BLE), 7.6 dBi (5 GHz)
Mounts	: Wall/Ceiling/T-bar mount (Mounting kit included)

Wi-Fi	
Standards	802.11ax (Wi-Fi 6) - Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5 – 300 Mbps (20 / 40 MHz) 802.11ac: 6.5 – 1733 Mbps (20 / 40 / 80 MHz) 802.11ax: 3.6 – 574 Mbps (2.4 GHz, 20 / 40 MHz) 802.11ax: 3.6 – 2400 Mbps (5 GHz, 20 / 40 / 80 MHz)
Radio Chains	2.4 GHz: 2 x 2 5 GHz: 4 x 4
Spatial Streams	2.4 GHz: 2; MU-MIMO support 5 GHz: 4; MU-MIMO support
Aggregate Conducted Transmit Power ³	2.4 GHz: Up to 23 dBm⁴ 5 GHz: Up to 26 dBm⁴

Channelization :

- 2.4 GHz: 20 / 40 MHz
- 5 GHz: 20 / 40 / 80MHz

Frequency Range :

- 2.400 – 2.483 GHz
- 5.150 – 5.850 GHz

Operating Channels :

- 2.4 GHz: 1 – 13
- 5GHz⁴⁵: 36–161

ESSIDs : Up to 16 per radio (32 total)

Performance

Physical Data Rate :

- Up to 574 Mbps (2.4 GHz)
- Up to 2400 Mbps (5 GHz)

Features

Wireless :

- 802.11 k/r
- Orthogonal Frequency Division Multiple Access (OFDMA)
- Client Isolation
- Open Mesh

Network :

- Spanning Tree Protocol (STP)
- Dynamic Host Configuration Protocol (DHCP)
- 802.1q
- Access Control List (ACL)
- Network Address Translation (NAT)
- Dynamic VLAN
- Link Layer Discovery Protocol (LLDP)

Security :

- WPA-Personal (AES)
- WPA-Enterprise (AES)
- WPA2-Personal (AES)
- WPA2-Enterprise (AES)
- WPA3-Personal (AES)
- WPA3-Personal Transition (AES)
- WPA3-Enterprise (AES)
- WPA3-Enterprise transition (AES)
- MAC Address Authentication

Maintenance :

- Network Time Protocol (NTP)
- Standalone
- Management by ecCLOUD
- Management by EWS-Series Controller (Complete tunnel)
- SSH
- QR Code Onboarding
- SNMP v2c
- Remote Syslog

QoS : RSSI Threshold (Optimal Client Filtering)



INTI-CAM77B-T1

SURVEILLANCE CAMERA

Applicable to buildings, supermarkets, hotels, banks, road, warehouse, underground parking lot, bar, pipeline, garden and other dark or lightless environment, which require HD image place, suitable for backlighting environment.

1080 P
Output

Mobile

TKDN + BMP

45.91%

H.265
Video
Compression

Sertifikasi



TKDN (5655/SJ-IND.8/TKDN/7/2023)

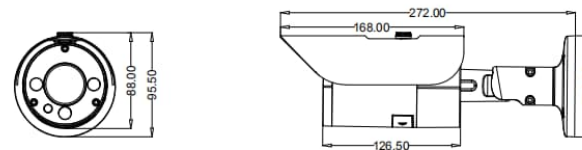
ONVIF

Fitur

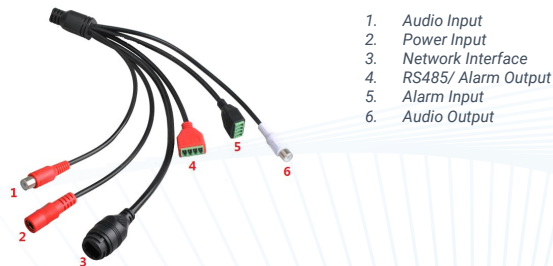
- Use the built-in deep learning algorithm of human shape and car shape, suitable for traffic statistics
- Only human or vehicle detection and analysis, other moving objects will not be affected by detection
- Support target counting, electronic fence, retrograde detection, off-site detection
- Support to calculate the statistics of import and export persons and vehicle flow
- Support to view daily/monthly report statistics and report to export
- Support Smart IR to prevent infrared overexposure at night
- ICR infrared filter automatic switch, to achieve real day and night monitoring
- Support corridor mode and add longitudinal and narrow monitoring areas in the environment
- Support multi-line OSD, font, size, color, position adjustable
- Support 3D digital noise reduction and TWDR
- Support automatic electronic shutter function, adapt to different monitoring environment
- Support a variety of intelligent alarm linkage output
- Support GB28181 access, support Onvif access
- Support Email, FTP and NTP services
- Supports HTTPS encrypted transport
- Change the password when starting the initial equipment to ensure the security of the password

- Support two-way voice intercom
- Support 2-way alarm input / 1-way alarm output

Dimensi



Wire Interface



Spesifikasi

Camera	
Image Sensor	: 1/2.8"SONY 2.07MP progressive scan Exmor CMOS
Min. illumination	: 0Lux/F1.4 (IR on) color: 0.01Lux/F1.4, B/W:0.001Lux/F1.4
IR Distance	: 40-50M (3*array IR leds)
Electronic Shutter	: Auto/ Manual(1/25~1/10000), FLK
Day/Night	: ICR switch, auto, color, B/W, ext
Lens	: 2.8-12mm motorized lens (2.8-12mm DC ICR lens optional)
Lens Interface	: Φ 14
Auto IRIS	: DC drive
S/N Ratio	: ≥ 50 db (AGC OFF)
Output	: PAL/NTSC adjustable
WDR	: WDR(Off/Low/Middle/High)
Light Board Control	: Auto/ Manual/Off
3D N/R	: Off/ Low/ Middle/ High/ Higher
Defog	: Off/ Low/ Middle/ High
Mirror	: Off/ Horizontal/ Vertical/ 180° rotation/ Corridor mode (90° rotation, 270° rotation)
Slow Shutter	: /
Exposure Control	: Auto/ Manual
Image Setting	: Brightness, Contrast, Saturation, Sharpness, Hue

Audio/Video Encoding	
Video Compression	: H.265/ H.264
H.265 Encoding	: Main Profile
H.264 Encoding	: BaseLine/Main Profile/High Profile
Encoding Features	: NTSC: main stream: 1920×1080@30fps, sub-stream: D1@30fps PAL: main stream: 1920×1080@25fps, sub-stream: D1@25fps
Max. Resolution	: 1920X1080
Video Bit Rate	: Constant bit rate, variable bit rate (16kbps~8000kbps)
Video Type	: Complex stream/ Video stream
Audio Compression	: G.711u
Audio Bit Rate	: 64Kbps
Audio Control	: Support input/output volume gain control
ROI	: Support 4 zones, multi-stage level
Watermark function	: /

Network	
Network Protocol	: TCP/IP, UDP, HTTP, DHCP, RTSP, DDNS, NTP, PPPoE, UPnP, SMTP, FTP
Access Protocol	: ONVIF, GB28181 (optional)
Browser	: Support IE, Chrome, Firefox, Safari
Video Preview Meanwhile	: 8
User Permission	: User add/modify/delete, permission management

Safe Mode	: Authorized user name and password, HTTPS encryption and AES link encryption, RTSP verification
Motion Detection	: Set detection zone, Multi-level sensitivity can be set
Tampering Alarm	: 1 zone
Privacy Mask	: 4 zones
Intelligent Analysis	: Target Counting, Left/Loss, Area Detection, Line Crossing
Sound Alarm Output	: Customize the broadcast language content and broadcast times (1-10 times)
Event Linkage	: Snapshot, TF card video, FTP upload or Email sending, alarm output linkage, preset linkage
Multicast Function	: Support
ANR	: Support, match with NVR
Mobile Surveillance	: Support Apple, Android
Device Exception Detection	: Support network disconnected, IP conflict, illegal access alarm
OSD	: Title, time and date overlay, multi-line OSD, OSD color optional
DST	: Support
Snapshot	: Support snapshot, snapshot resolution is encoding resolution
System Update	: Support remote update

Interface

Network Interface	: RJ45 10M/100M network adaptive
Analog Video Output	: 1CH 1.0Vp-p Composite video output
Audio	: Line input/ output

Alarm Input	: 2CH input
Alarm Output	: 1CH output
Reset	: Support
RS485	: Support
TF Card	: Support Max 128G, Micro SD(SDHC /SDXC) card local-storage

General

Operating Temperature	: -20°C ~ 55°C
Operating Humidity	: 0% - 90%
Protection Grade	: IP66/ IK09
Power Supply	: DC12V /PoE optional
Power Consumption (Max)	: <8W
Dimensions (mm)	: 272(W)*93(H)*95.5(L)



INTI-CAM77D-T1

SURVEILLANCE CAMERA

TKDN + BMP

42.42%

Sertifikasi

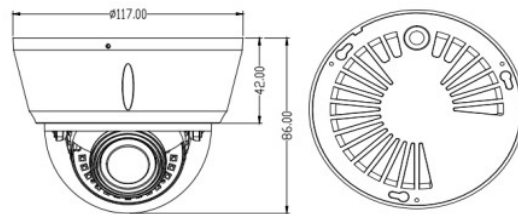


TKDN (5654/SJ-IND.8/TKDN/7/2023)

Fitur

- 5MP Human vehicle intelligent detection infrared camera max resolution up to 5M (2592 x 1944)
- Support three streams, H.265 efficient compression, low bit rate, low delay, ROI enhancement encoding
- 2.8 12mm electric zoom lens, the picture adjustment is more flexible
- Only human or vehicle detection and analysis, other moving objects will not be affected by detection
- Support the calculation of import and export passenger and vehicle flow statistics, daily / monthly report statistics and report to export
- Support alarm linkage output custom voice broadcast prompt
- Support 3D digital N/R, WDR, Corridor mode
- Support multiple intelligent alarm
- Support GB28181, Onvif access
- Support two way voice intercom, 2 way alarm input / 1 way alarm output
- Support Micro SD card (128G) local storage
- Support PoE power supply

Dimensi



Wire Interface



1. Audio Input
2. Power Input
3. Network Interface
4. RS485/ Alarm Output
5. Alarm Input
6. Audio Output

Spesifikasi

Camera	
Image Sensor	: 1/2.8"SONY 5 Mega Progressive Scan Exmor CMOS
Min. illumination	: 0Lux/F1.4 (IR ON); Color: 0.1Lux/F1.4,B/W: 0.05Lux/F1.4
IR Distance	: 30M
Electronic Shutter	: Auto/Manual (1/5~1/100000)
Day/Night	: Auto/Color/B/W/Ext
Lens	2.8-12mm motorized lens
	Focus : Auto/Manual
S/N Ratio	: ≥50db (AGC OFF)
WDR	: WDR (Off/Low/Middle/High)
3D N/R	: Off/Low/Middle/High/Higher
Defog	: Off/Low/Middle/High
Mirror	: Off/Horizontal/Vertical/180° rotation/Corridor mode (90° rotation, 270° rotation)
Slow Shutter	: Off/On, default off
Exposure Control	: Auto/Manual
Image Setting	: Brightness, Contrast, Saturation, Sharpness, Hue and White balance

Backlight Mode	: BLC/HLC/Off
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Audio/Video Compression	
Video Compression	: H.265/H.264
H.265 Encoding	: Main Profile
H.264 Encoding	: BaseLine/Main Profile/High Profile
Encoding Features	: NTSC : main:2592X1520@30fps, 2592X1944@20fps, sub: D1@30fps PAL : main: 2592X1520@25fps, 2592X1944@20fps, sub: D1@25fps
Triple Stream	: NTSC/PAL : 2592X1944@10fps
Max. Resolution	: 2592 x 1944
Video Bit Rate	: Constant bit rate, variable bit rate (16kbps~8000kbps)
Video Type	: Complex stream/ Video stream
Audio Compression	: G.711u
Audio Bit Rate	: 64Kbps
Audio Control	: Support input/output volume gain control
ROI	: Support 4 zones, multi-stage level

Network	
Network Protocol	: TCP/IP, UDP, HTTP, DHCP, RTSP, DDNS, NTP, PPPoE, UPnP, SMTP, FTP
Access Protocol	: ONVIF, GB28181 (optional)
Browser	: Plug in supports IE11 or above
Video Preview Meanwhile	: 8
User Permission	: User add/modify/delete, permission management
Safe Mode	: Authorized user name and password, HTTPS encryption and AES link encryption, RTSP verification
Motion Detection	: Set detection zone, Multi-level sensitivity can be set
Tampering Alarm	: 1 zone
Privacy Mask	: 4 zones
Intelligent Analysis	: Detection and analysis of the behavior of persons or vehicle targets only
Sound Alarm Output	: Customize the broadcast language content and broadcast times (1-10 times)
Event Linkage	: Snapshot, TF card video, FTP upload or Email sending, alarm output linkage, preset linkage
Multicast Function	: Support
ANR	: Support, match with NVR
Mobile Surveillance	: Support Apple, Android

Device Exception Detection	: Support network disconnected, IP conflict, illegal access alarm
OSD Overlay	: Title, time and date overlay, multi-line OSD, OSD color optional
DST	: Support
Snapshot (Valid with TF Card)	: Support linkage capture, capture interval and capture number can be set
System Update	: Support remote update

Human & Vehicle Shape Detection	
Target Counting	Anti Tampering Feature The deployment time period can be set
	Defense type: people , vehicles, people and vehicles
	Test line can be set up, up to 4
Electronic Fence	Statistical methods: A-B/B-A, the number of people increased or decreased
	The deployment time can be set
	Detection area can be set up, up to 4
Retrograde Detection	Detection type: target entry, exit, wander, or intrusion detection
	The deployment time can be set
	Detection area can be set up, up to 4

Off-Site Detection	:	The deployment time can be set
		Detection area can be set up, up to 4
		Departure time can be set
Report statistics (valid with TF card)	:	Target count: daily/monthly reports, line charts, bar charts, lists
		Electronic fencing: lists
		Retrograde detection: lists
		Departure detection: lists

Interface		
Network Interface	:	RJ45 10M/100M network adaptive
Audio	:	1ch Line in\1ch Line out
Alarm Input	:	2ch
Alarm Output	:	1ch
RS485	:	Support
TF Card	:	Support, max 128G, Micro SD(SDHC/SDXC) card local-storage

General		
Operating Temperature	:	-20°C ~ 55°C
Operating Humidity	:	0% - 90%
Protection Grade	:	IP66/IK10
Power Supply	:	DC12V /POE
Power Consumption (Max)	:	<8W
Dimensions (mm)	:	117 (D) mm × 86 (H) mm



INTI CHROMEBOOK

INTI Chromebook dirancang untuk membantu Anda menyelesaikan berbagai aktivitas dengan lebih cepat dan lebih mudah. INTI Chromebook menjalankan ChromeOS, sistem operasi dengan penyimpanan *cloud*, memiliki fitur bawaan terbaik dari Google, serta keamanan berlapis.

Spesifikasi

<i>Processor Type</i>	: Minimal Dual core, 1,1 GHz, cache 1M	<i>Operating System</i>	: Chrome OS
<i>Memory</i>	: 4GB DDR4	<i>Display</i>	: 14inch
<i>Harddrive</i>	: 32GB	<i>Device Management</i>	: Ready to activated chrome education upgrade
<i>I/O ports</i>	: USB 3.0	<i>Warranty</i>	: 1 Years spare part & waranty
<i>Port</i>	: 1x HDMI port, 1x VGA port		
<i>Networking</i>	: Integrated Wifi (IEEE 802.11ac/b/g/n)		
<i>Graphic Type</i>	: Integrated HD graphic		
<i>Audio Ports</i>	: Integrated		
<i>Display</i>	: 11inch LED		
<i>Power</i>	: Maximum 50watt		



INTI AIO

INTI AIO merupakan perangkat *All in One PC* (AIO PC) yang semua komponennya termasuk monitor terintegrasi dalam satu unit tunggal, kecuali *keyboard* dan *mouse*. INTI AIO menawarkan beberapa keunggulan dibandingkan komputer desktop tradisional. Selain menghemat ruang meja, estetika, ringkas, dan mudah diatur dibandingkan dengan komputer desktop, INTI AIO juga dapat mengurangi konsumsi daya dan panas serta ramah lingkungan.

Spesifikasi

Product Type	: ALL IN ONE PC
Product Model	: P215
Resolution	: 1920 * 1080
CPU	: intel®core™ i5 11400 Main frequency: 2.6Ghz Turbo frequency: 4.4Ghz
RAM	: 8G DDR4
ROM	: 1T SSD
Graphic Card	: Intel HD 730
Screen Size	: 21.5 inch
Interface Port	: Audio In/Out, USB3.0*2, USB3.0*2, RJ45 Gigabit LAN*1, COM*1, HDMI*1, DC*1
External Interface	: USB2.0*2

BT	: BT 5.2
Adapter Power	: Input 100-240V ~ 50/60Hz 1.8A MAX Output 19VDC-7A
WiFi	: WIFI6 IEEE802.11a/b/g/n/ac/ax
Sound System	: Stereo Speakers
OS	: Windows 10/11
Keyboard and Mouse	: Yes
Color	: White
Package Size	: 490*380*290mm
Packing List	: All-in-one computer machine*1, Adapter*1 Power cord*1, Base*1



INTI MODEM 4G (LTE6 - R825)

R825 is the center of home or office network, and it is particularly designed for several applications : High-speed internet, video on demand etc. This device integrates LTE modem, two GE ports, wireless 802.11b/g/n/ac technology and LTE WAN access via mobile network.

User can take advantage of internet connectivity, and can easily change settings by web based UI, and backup or restore configuration if required. Speaking of SMS (Short Message Service) feature in every cell phone, you can also send and read SMS with R825.

VoLTE /
CSFB

Wi-Fi
Dual Band

300 Mbps DL

Fitur

- Qualcomm X12 (UNISOC SL8563 optional)
- LTE Cat.6 speed up to 300 Mbps DL /50 Mbps UL
- Wi-Fi 2.4G/5G dual Band (DBSC)
- Support VoLTE and CSFB Voice
- Support up to 32 Wi-Fi devices
- 2 Gigabit Ethernet ports
- Silicon Lab chipset to adapt all most global regions' telephone standard
- Support TR-069/FOTA remote manage
- APP intelligent management
- 802.11n/802.11 AC Compliance with 2T2R Technology
- Max. physical data rate up to 300Mbps/866Mbps
- Backward compatible to IEEE 802.11b/g standards
- Support WEP, WPA-PSK, WPA2-PSK encryption
- Establish secured Wireless Connection via WPS function

Dimensi

- Dimension : 132 x 118 x 45mm
- Weight: 195g



Spesifikasi

Form	LTE Desk Router		
WAN	Chipset	CPU	Qualcomm X12 (UNISOC SL8563 optional)
	Frequency Bands	LTE	B1/B3/B5/B7/B8/B20(28)/B38/B40/B41/B42/B43(depend on request)
		CA	2CA combos
		UMTS	B1/3/5/8
	Antenna	External	Primary and Diversity (*2) (optional)
		Internal	2* Internal Antenna
	RF Power Level	LTE FDD	Power Class 3 (23 +/-2dBm)
		UMTS	Power Class 3 (24 +1.7/-3.7dBm)
	Data Rate	4G	3GPP Cat. 6, Downlink/Uplink up to 300Mbps/50Mbps
		3G	3GPP Downlink/Uplink up to 42Mbps/5.76Mbps
WLAN	Wi-Fi	Frequency	2.4GHz & 5G (DBSC)
		Protocol	IEEE 802.11b/g/n/ac
		Antenna	Internal, 2 x 2
	Data Rate	802.11b	Up to 11 Mbps
		802.11g	Up to 54 Mbps
		802.11n	Up to 300 Mbps
		802.11ac	Up to 867Mbps

Power Supply	AC/DC, 12V1A	
Interface	LAN/WAN	2xRJ45 GE Ports for 2xLANs or 1xWAN+1xLAN
	RJ11/USIM(4FF Nano SIM)/Micro USB2.0/External antenna interface supported	
LED	Power/Wi-Fi 2.4G/Wi-Fi 5.8G/LAN/Internet/Signal Strength(4 Bars)	
Button	Power/WPS/Reset	
Software	Network	Connection Status/Statistics/Network Mode Selection/Auto APN match
	Management	WebUI/FOTA/TR-069
	SMS	SMS/USSD
	WLAN	SSID Broadcast/WEP, WPA, WPA2/MAC filter/WPS
	Router	DHCP Server/IPv4v6/VPN Passthrough/Firewall
		Dynamic IP/Static IP/PPPoE/PPTP(Dual Access)/L2TP(Dual Access)/Traffic Control (IP QoS)
	APP	Android/iOS App Management
	OS	Windows 7/8/10, MAC 10.10+, Ubuntu 15.04+
Temperatur	Browser	IE9+, Firefox, Google Chrome, Safari, Opera
	Working Temperature	0°C to 45°C
	Storage Temperature	-20°C to 60°C

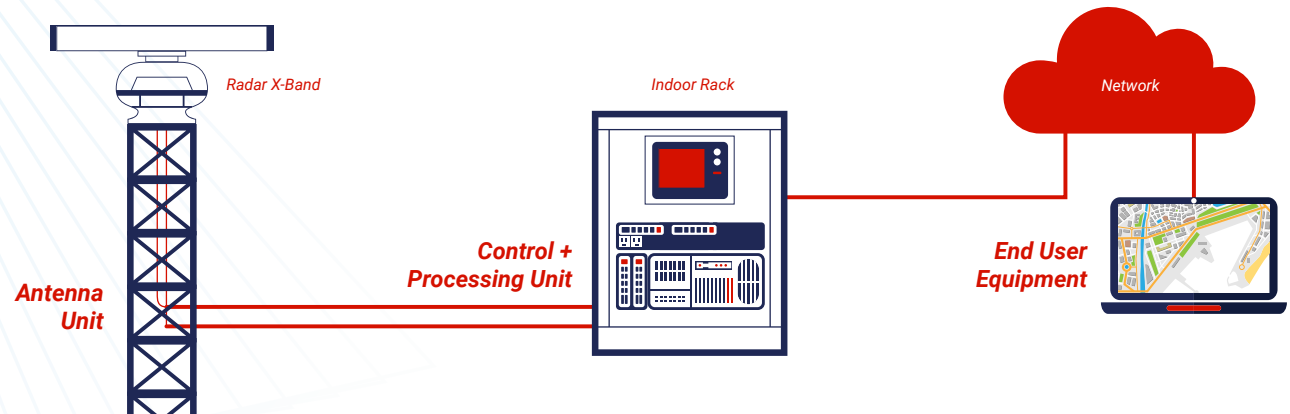


SANTANU

SISTEM PEMANTAUAN HUJAN SPASIAL

SANTANU adalah sistem monitoring untuk pemantauan hujan skala lokal sebagai teknologi alternatif untuk mengisi daerah-daerah yang tidak terpantau oleh radar cuaca yang sudah ada.

SANTANU merupakan produk Litbang Pusat Sains dan Teknologi Atmosfer LAPAN bekerjasama dengan PT INTI untuk produksi dan komersialisasi, difasilitasi oleh Ristekdikti serta didukung oleh BMKG sebagai pembuat standar dan pengguna.



Benefit

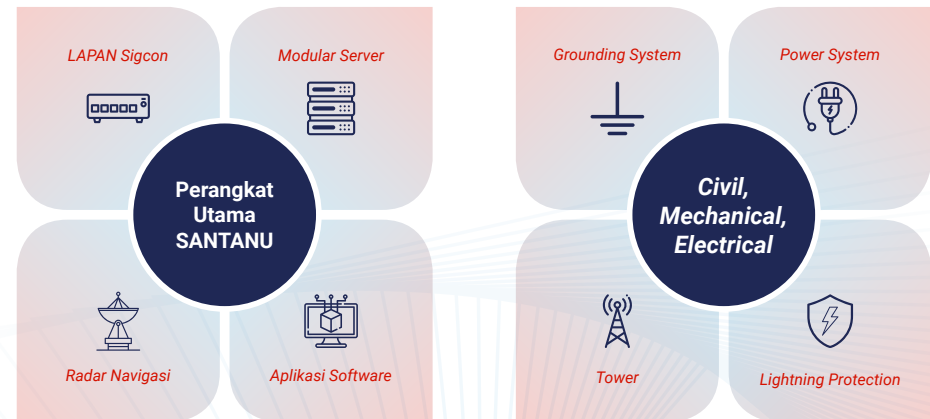
- *Low cost.*
- Kemudahan operasional dan perawatan sistem secara keseluruhan.
- Memantau pergerakan hujan serta lokasi hujan yang sedang terjadi.
- Menandai lokasi tertentu yang memiliki tingkat kerawanan bencana hidrometeorologi dan menampilkan data curah hujan sebelumnya di lokasi tersebut ke pengguna.
- Meningkatkan jumlah komponen dalam negeri, sehingga dapat mengurangi ketergantungan impor.
- Mendukung sistem navigasi di bandara maupun di syahbandar yang memerlukan informasi kondisi hujan di sekitar daerah tersebut.

Spesifikasi

Frekuensi operasi	: 9410 MHz + 30 MHz
Jangkauan deteksi	: 44 kilometer
Resolusi spasial	: 120 x 120 meter
Resolusi temporal	: 2 menit
Peak power	: 6 KiloWatt
Polarisasi	: Horizontal

Input Tegangan	: 12 VDC 50 A
Berat (antena dan sistem rotor)	: 22 kg
Pengolah data	: SANTANU Data Processing Sistem Operasi Windows minimal Windows 7
Visualisasi Data	: SANTANU visualization - Web based SANTANU monitor system - Desktop PC

Benefit



VESSEL MONITORING SYSTEM (VMS)

VMS (Vessel Monitoring System) merupakan perangkat monitoring sistem berbasis sinyal satelit yang berjalan pada jaringan Inmarsat.

VMS menawarkan fasilitas komunikasi transmisi data via satelit yang memungkinkan pertukaran data dan informasi kelautan dan perikanan untuk kepentingan nelayan, pemilik kapal maupun penyedia layanan (operator). Produk VMS dapat memberikan nilai tambah bagi nelayan berupa efisiensi, keselamatan, dan peningkatan hasil tangkapan ikan.



**Vessel
Tracker**

**Emergency
Button**

**Geofence
Alarm**

**Text
Messaging**

Mobile Apps

**Battery
Backup**

Spesifikasi

Physical

External Dimensions	: p(max) x l(max) x t(max) < Indoor (250 x 200 x 200mm) Outdoor (136 x 136 x 102mm)
Weight	: max 5kg
Housing	: Double shell housing with light color outer shell

Environmental

Operating Temperature	: -40°C to +85°C
Storage Temperature	: -40°C to +85°C
Humidity	: Relative Humidity 20% - 100%
Dust & Water Ingress	: IP65 non corrosive materials
Vibration	: MIL-STD-810G, Tracked Vehicle and Aircraft SAE J1455, Cab Mounted & Transverse Axis

Electrical

Input Voltage Range	: 5VDC to 15VDC
Nominal Supply Voltage	: 12VDC

Input Current	: Transmit mode: 750mA @12VDC GPS on: ~70mA Receive mode: ~80mA @12VDC
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Back-up Battery	: Lithium Polymer
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Satellite Data Communication

Network	: Inmarsat
Frequency	: Downlink: 1525.0 MHz to 1559.0 MHz Uplink: 1626.5 MHz to 1660.5 MHz
Antenna	: Passive Antenna

Antenna Specification

Frequency Range	: IEEE 802.11b/g/n IEEE 802.11n (2.4 GHz), up to 150 Mbps
Impedance	: Nominal value 50 ohm
Return Loss	: Better than 15 dB
Gain	: 7 dBi
Power Rating	: 10W
Polarization & Axial Ratio	: Right hand circular polarization (RHCP) The axial ratio shall be less than 2 dB



IGM I.1.6LR

METER GAS PRA-BAYAR BERBASIS LORA WAN

Meter Gas Pra-bayar Berbasis Lora WAN (IGM i.1.6LR) merupakan alat ukur untuk gas yang mengalir, yang dipakai sebagai pengukur volume dan besarnya biaya pemakaian. Alat ini bekerja pada tekanan tertentu dan terpasang *keypad* yang berfungsi untuk menginput nomor seri token di saat pengisian. Gas meter ini menggunakan sistem *prepaid* yang berarti penggunaan gas baru bisa dilakukan setelah dilakukan pembayaran.



Pemakaian gas dapat terkendali dan termonitor.



Sistem pembelian gas oleh user semakin praktis.



Peluang adanya tunggakan pembayaran dari pelanggan semakin kecil.



Efisiensi biaya di pihak operator karena tidak diperlukan lagi adanya petugas pencatat di lapangan.



User Friendly.



Fitur

- Menggunakan teknologi Lora WAN
- Menggunakan LCD sebagai display tampilan informasi status gas.
- Memiliki indikator alarm saat terjadi tamper.
- Memiliki port komunikasi infrared untuk perubahan konfigurasi atau *upgrade firmware*.
- Indikator Alarm :
 - a. Tamper
 - b. Aktivasi
- Fungsi Tombol :
 - a. Pergantian tampilan LCD *display*
 - b. Komunikasi Lora WAN
- Fungsi pengendali *valve*.
- Tahan terhadap percikan air dan debu.
- Material *body* terbuat dari *steel* anti korosi.

Spesifikasi

Spesifikasi Parameter	Unit	IGM i.1.6LR
<i>Cyclic Volume</i>	dm ³	1.2
Aliran Minimum (Q_{min})	m ³ /h	0.016
Aliran Maksimum (Q_{max})	m ³ /h	2.5
Aliran Kelebihan Beban	m ³ /h	3.0
Kehilangan Tekanan	Pa	<250
Aliran Normal (Q)	m ³ /h	1.6
Nilai Rekaman Minimum	dm ³	0.2
Nilai Rekaman Maksimum	m ³	99999.999
Tekanan Kerja Maksimum	kPa	40
Suhu Kerja	°C	-10 ~ +40
Kelas Akurasi	%	±3.0 (Q_{min} ke Q_i); ±1.5 (Q_i ke Q_{max})
Spesifikasi Baterai	v	3.6 (<i>Baterai Lithium</i>)
Data Historis	:	Mendukung penyimpanan data tanggal dan waktu, kredit, dll
Pencatatan Peristiwa	:	Tegangan baterai, kondisi katup, batas aliran, dll
Tingkat Perlindungan	:	IP65
Massa Udara yang Berlaku	:	Semua jenis gas, udara, gas non-korosif



TA13

SINGLE PHASE AMI METER

AMI



MULTIPLE
COMMS OPTIONS



ANTI TAMPER



LARGE
LCD DISPLAY



RELAY



ISO901 : 2008 ISO14001:2004



Replaceable Battery



DCmagnetic induction at the rate of 500mT of
external origin



Wireless Meter Data Reading



Anti-Tamper



Comply to SPLN D3.007_2021

Spesifikasi

Technical Data	
Meter Format	: Single phase two wires with optional neutral current measurement
Reference voltage	: 230V
Operating voltage	: 0.5Un ~ 1.3Un
Current	: 5A (basic current), 60A (maximum current)
Starting current	: 0.002lb
Reference frequency	: 50Hz
Accuracy Class	: Class 1.0
Clock Accuracy	: $\pm 0.5s/day@23^{\circ}C$
Impulse generator energy constant	: 1000imp/kWh (1000imp/kvarh)
Operating temperature range	: Normal range : $-25^{\circ}C \sim +45^{\circ}C$ Limited range : $-40^{\circ}C \sim +55^{\circ}C$
Storage and transport temperature range	: $-40^{\circ}C \sim +85^{\circ}C$
Relative humidity	: 75 ~ 100% (non-condensing)
Ingress protection rating	: IP54

Display	: - Main character dimensions : 4.31mm (W) * 8.0mm (L) - Energy display digits : 8 characters - Display mode : Scrolling display, push button - Data item : OBIS
Battery life	: Internal Lithium Battery > 15 years (blackout condition)
Communication interface	: Optical (IR), RS485, RS232, PLC, RF, and Cellular
Disconnect relay	: 1P2W, 2 relays
Physical Dimensions	: Appr. 270mm (L) * 134.5mm (W) * 84.2mm (H)
Terminal Hole Diameter	: 9 x 9mm
Weight	: Appr. 1.65kg

Insulation Test	
Insulation & Overvoltage	: - Insulation system : Protective Class II - Insulation level : 4kV for 1 minute - Overvoltage withstand : 440 Vac for 48 hours
Impulse voltage tests	: According to IEC 60060-1, impulse voltage is 8kv

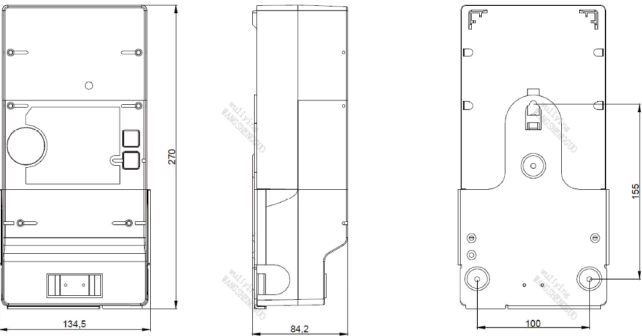
Electrical Requirements	
Magnetic field interference	: - DC magnetic induction at the rate of 500mT of external origin - AC magnetic induction at the rate of 0.5mT of external origin
Power Consumption	: Voltage circuit < 2W, 10VA, current circuit < 4VA

Function		
Measuring Parameters	:	• Import/Export • Active/Reactive • W-hr/Var-hr • Line voltage/Line current • Voltage Frequency/Power factor
Technical Data		
IEC62052-11	IEC62053-21/23	IEC62056
SPLN D5.002:2021	SPLN D3.005:2008	SPLN D3.023:2021
DLMS/COSEM		

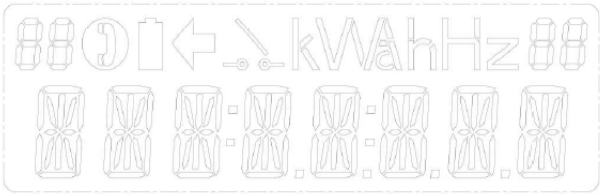
Technical Specification

- 1P2W, 5(60)A
- Protocol: DLMS/COSEM
- Comm.Module: PLC-RF dual-mode module
- Comm. Port: RS485/RS232
- Internal Disconnect Relay
- Super-Capacitor

Dimensi



LCD Indication





LAMPU JALAN LED

INTI-CCCKI SOLAR INTEGRATED LAMP 60 W

INTI-CCCKI Solar Integrated Lamp 60 Watt adalah sistem pencahayaan yang mandiri, yang terdiri dari lampu hemat energi *Light Emitting Diode* (LED) dan terintegrasi dengan modul surya yang berfungsi untuk menangkap energi sinar matahari dan mengubahnya menjadi energi listrik, serta baterai untuk menyimpan energi listrik tersebut. Produk ini dilengkapi dengan modul kontrol yang akan mengaturnya dan material casingnya terbuat dari aluminium yang tahan korosi serta driver LED nya bekerja dengan efisiensi yang tinggi sehingga menghasilkan pencahayaan yang sangat kuat.

Penggunaan produk ini dapat untuk penerangan jalan-jalan di kota, trotoar, sekolah, taman, halaman, daerah pemukiman, pabrik dan tempat-tempat lainnya dimana diperlukan dekorasi pencahayaan.

TKDN + BMP
31.97%

Sertifikasi



TKDN (7680/SJ-IND.8/TKDN/7/2023)

Spesifikasi

Product Name : INTI-CCCKI Solar Integrated Lamp 60 W

Standard : INTI_SIL 60VA

Brand : INTI

Unit of Measurement : Piece

Product Type : INTI-CCCKI-PJU-LED 60 W

Valid Until : 2024-06-30

Product URL : www.inti.co.id

LED Power : 400W

LED Chip Brand : BRIDGELUX SMD 3030X250LEDs

Host Protocol : PC/SC, Proprietary

Solar Panel (Watt) : 10V 90Wp (±3%)

Color Rendering Index : ≥Ra75

IP Module : IP65

Light Distribution Type : Half-Cut Type

Light Angle : 60° x 130°

LED Lifespan : >50000 Hours

Lamp Body Material : Aluminium Alloy

Luminous Flux at Amaximum Power : >7200LM

Light Attenuation : 3000 Hours <0.5%, 6000 Hours <1%

Battery : LiFePO₄ Battery 6.4/66AH (±3%)

Color Temperature : 60000 K (±300K)

Working Temperature : -10°C~+65°C

Connecting Pipe Diameter : Ø60mm

Recommended Installation Height : 5m~8m

Lamp Size : 1460x350x160mm

Net Weight : 15.2Kg

Controller : Double MPPT

Warranty Period (Year) : 3

Endurance : 2 Rainy Days Can be Guaranteed

Lighting Method and Lighting Effect : at the Height of 6 Meters, Continuous Lighting for 12 hours of Illumination >8Lux

Lighting Method and Effect Can be Customized

Lighting Effect is Superior to Road Lighting Standard



@ptintiofficial

www.inti.co.id



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Kantor Pusat

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E-mail : info@inti.co.id

Kantor Cabang Jakarta

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Jakarta Selatan 12110

Fasilitas Produksi

Jl. Moch. Toha No. 225 Bandung
Tlp: (022) 5206510