



QUADRAN
EMPAT PERSADA

PT. Quadran Empat Persada

COMPANY PROFILE



QUADRAN
EMPAT PERSADA

SEKILAS PT. Quadran Empat Persada (QUADRAN)

Head Office & Factory
Jl. Rumah Sakit No. 108 Bandung

Branch Office
Komplek Kebayoran Center Blok B3, Jl.
Kebayoran Baru Velbak Jakarta Selatan

Organisation

- **President Director : Edi Rosidi**
- **Marketing Director : Boy Aditya**

Capability

- Fabrication**
- **Steel Structure**
 - **Metal Sheet**
 - **Vehicle Product**
- Implementation**
- **Civil Mechanical Electrical**
 - **Power System**
- Engineering Design**
- **Structure Analysis**
 - **Custom Structure Product**
 - **Coverage Solution**

Project Area

All around Indonesia

SEKILAS QUADRAN



Product & Solution Experiences

- Desain dan Pabrikasi Lightning Protection
- Desain dan Pabrikasi Mobile Tower
- Desain dan Pabrikasi Permanent Tower
- Desain dan Pembangunan Integrated Warehouse System
- Desain dan Implementasi Hybrid Power System with Solar Cell
- Desain dan Implementasi Pembangunan Jaringan Listrik Kawasan
- Dan Lain-lain



Customer

Industri Telekomunikasi

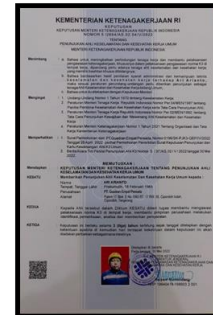
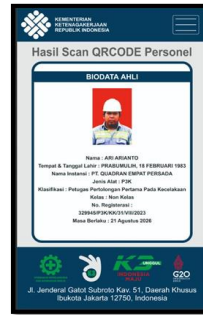
- Telkomsel
- Telkomcel Timor Leste
- Telkom Infra
- XL
- Indosat
- Mtratel
- Smartfren
- Protelindo
- TBG
- IBS
- Lintasartha
- PST
- DII

Industri Pertambangan

- Harita Nickel
- IMIP
- IWIP
- China Mobile
- KPC
- Berau Coal Sinarmas Mining
- Pertamina Hulu Rokan
- Pertamina Retail
- BUMA
- PAMA
- IMPRIMA
- Hutama Karya
- DII

SEKILAS QUADRAN

Sertifikasi Perusahaan



DETAIL PRODUK QUADRAN



MOBILE PRODUCT

- Mobile Tower 10M – 23M
- Mobile Tower 32M – 45M
- Mobile Tower 50M - 60M
- RANGER 10M – 20M
- Portable Product Solution
- Container Product



PERMANENT TOWER

- Tower Greenfield & Rooftop
- Tower Kamuflase
- Lightning Pole Permanent



ENERGI TERBARUKAN & POWER SYSTEM

- Energi Terbarukan
- Mobile Power Solar Cell
- Mobile Power Lusyta



IT BASED

- Radio trunking
- Internet
- CCTV



JASA INSTALASI

- Instalasi Rectifier Battery
- Instalasi BTS
- Instalasi Radio PTP MW
- Penarikan Kabel Optik
- Instalasi Kamera



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Mobile Tower Product

Mobile Tower 10M – 23M



SPECIFICATION

▪ Tower Type	Pneumatic Hylomast telescopic; Aluminium Alloy		
▪ Tower Height	10 m		15 m
▪ Wind Velocity	Maksimal 100 km/h		Operasional 70 km/h
Maximum Tower Load			
▪ Microwave Antenna			
Diameter	0.6 meter	0.6 meter	
Max. Number	1 units	1 units	
Elevation	10 meters	15 meters	
▪ RF Antenna			
Dimension	1.5 meters	1.5 meters	
Max. Number	3 units	3 units	
Elevation	8.5 meters	13.5 meters	
▪ RRU			
Max. Number	3 units	3 units	
Elevation	5 meters	10 meters	
▪ Equipment	Lighting (2 unit), Tent (4.2 x 4.6 m), Rectifier, ACPDB, Genset, Compressor, Exhaust fan, Fire Extinguisher, Grounding System, Outrigger, counter weight, power pack		
▪ Towing Vehicle	4WD or Truck		
▪ Overall Dimension	4105 x 1759 x 2716 mm (p x l x t)		
▪ Land Necessity	5 x 5 meter		

Mobile Tower 32M – 45M



SPECIFICATION	STANDARD			MEDIUM			NEO	
• Type	Cremona Telescopic Tower			Cremona Telescopic Tower			Cremona Telescopic Tower	
• Tower Height	42 m	32 m	22 m	42 m	32 m	27 m	42 m	32 m
• Wind Velocity Maximum Operations	100 km/h 70 km/h			120 km/h 84 km/h			120 km/h 84 km/h	
• Tower structure Leg Branching Horizontal	Pipe steel SCH40 Ø 1 Inches Rod Ø 12 mm; 16 mm; 19 mm Rod Ø 12 mm; 16 mm; 19 mm; U profile			Pipe steel SCH80 Ø 1.25 Inches; SCH40 Ø 1 Inches Rod Ø 12 mm; 16 mm; 19 mm Rod Ø 12 mm; 16 mm; 19 mm; U profile			Pipe steel SCH80 Ø 1.5 Inches; SCH40 Ø 1 Inches Rod Ø 15 mm; 19 mm Rod Ø 16 mm; 19 mm; U profile	
• Tower erections mechanism	Winch drive by hydraulic motor			Winch drive by hydraulic motor			Winch drive by hydraulic motor	
• Tower finishing	Galvanized and painting			Galvanized and painting			Galvanized and painting	
Maximum Tower Load								
• MW Antenna Diameter (m) Max. Number Elevation (m)	0.6 2 units 40	0.6 2 units 30	0.6 2 units 20	0.6 2 units 35.5 & 30	0.6 2 units 25.5 & 20	0.6 2 units 26 & 24	0.6 4 units 38.5	0.6 4 units 28.5
• RF Antenna Dimensions (m) Max. Number Elevation (m)	2.0 3 units 38	2.0 meter 3 units 28	2.0 3 units 18	2.5 6 units 39.7 & 30	2.5 6 units 29.7 & 20	2.5 6 units 27 & 24	1.5 & 2.5 6 units 40.5 & 36.5	1.5 & 2.5 6 units 30.5 & 26.5
• RRU Diameter (m) Max. Number Elevation (m)	1.3 3 units 35	1.3 3 units 25	1.3 3 units 15	6 units 25.25 & 24.65	6 units 15.25 & 14.65	6 units 22.6 & 21.5	3 units 30.6	3 units 20.6
• Filter Max. Number Elevation (m)				3 units 24.15	3 units 14.15	3 units 21		

*) RRU System : 4 RRU; 2 Filter; 1 Junction Box

Mobile Tower 50M – 60M



1. SUMMARY STRUCTURE ANALYSIS

Table 1. Tower Analysis Result

Tower Height :			Tower Data		Base Level : 0.00 m	
Antenna Loading						
Antenna Type	Quantity	Dimension (m)	Elevation (m)	Weight / Units (kg)	Remarks	
Standard Loading						
Splitzen Zeus	1	-	Top	10.0	-	
Antenna RF	3	2.600x0.350x0.200	+55.00	30.0	XL	
RRU	2	0.400x0.300x0.126	+55.70	15.0	XL	
RRU	2	0.400x0.300x0.126	+55.00	15.0	XL	
RRU	2	0.400x0.300x0.126	+54.30	15.0	XL	
Microwave	1	Ø0.6	+45.00	30.0	XL	
CCR Radio	2	6.07 Length	+45.00	25.0	-	
ODU NEC	2	0.240x0.240x0.080	+45.00	5.0	-	
GNSS Antenna	1	-	+10.00	0.5	-	
Structure Tower Design Output Summary						
Description	Output		Comparison	Limitation	Remarks	
Maximum stress ratio (Wind speed 120 kph - 3 Second Gust)						
Main Leg	0.617		≤	1.00	OK	
Bracing	0.572		≤	1.00	OK	
Horizontal	0.163		≤	1.00	OK	
Guy	0.298		≤	1.00	OK	
Twist, Sway & Displacement (Wind speed 84 kph - 3 Second Gust)						
Max Twist (degree)	0.154		≤	1.00	OK	
Max Sway (degree)	0.267		≤	1.00	OK	
Max Displacement (m) : Max. H/100	0.125		≤	0.58	OK	
Anchor and Baseplate Connection Wire						
Anchor M20x700x100	0.159		≤	1.00	OK	
Baseplate, Plate 20 mm	0.330		≤	1.00	OK	
Maximum Tension Support Reaction (Guy Wire 1 – 13.00 x 13.00 m)						
	Force-X kN	Force-Y kN	Force-Z kN	Moment-X kNm	Moment-Y kNm	Moment-Z kNm
	4.846	4.846	16.249	0.000	0.000	0.000
Maximum Tension Support Reaction (Guy Wire 2 – 21.00 x 21.00 m)						
	Force-X kN	Force-Y kN	Force-Z kN	Moment-X kNm	Moment-Y kNm	Moment-Z kNm
	9.635	9.635	42.541	0.000	0.000	0.000
Structure tower is still strong enough to support antenna loading.						

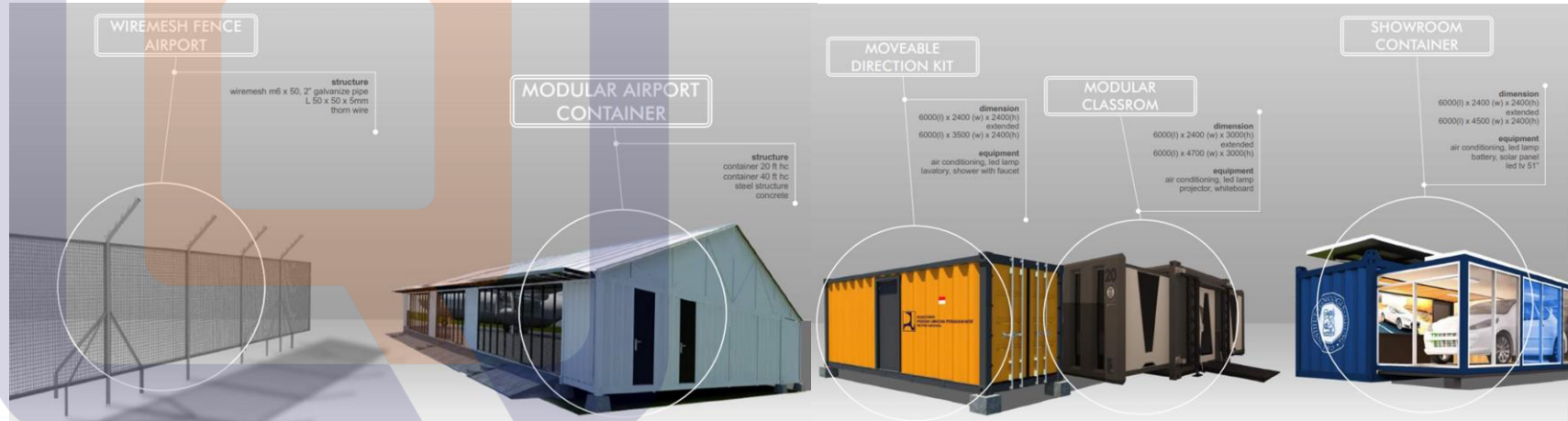
Portable Product Solution



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Container Product





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Permanent Tower

Tower Greenfield & Rooftop



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4 Leg Angular

Integrated
BTS Facility

Roof Top 15 M

SST Medium 42

ST Medium 55

Tower Kamouflage



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SST Minaret

SST Minaret

Monopole
Banyan

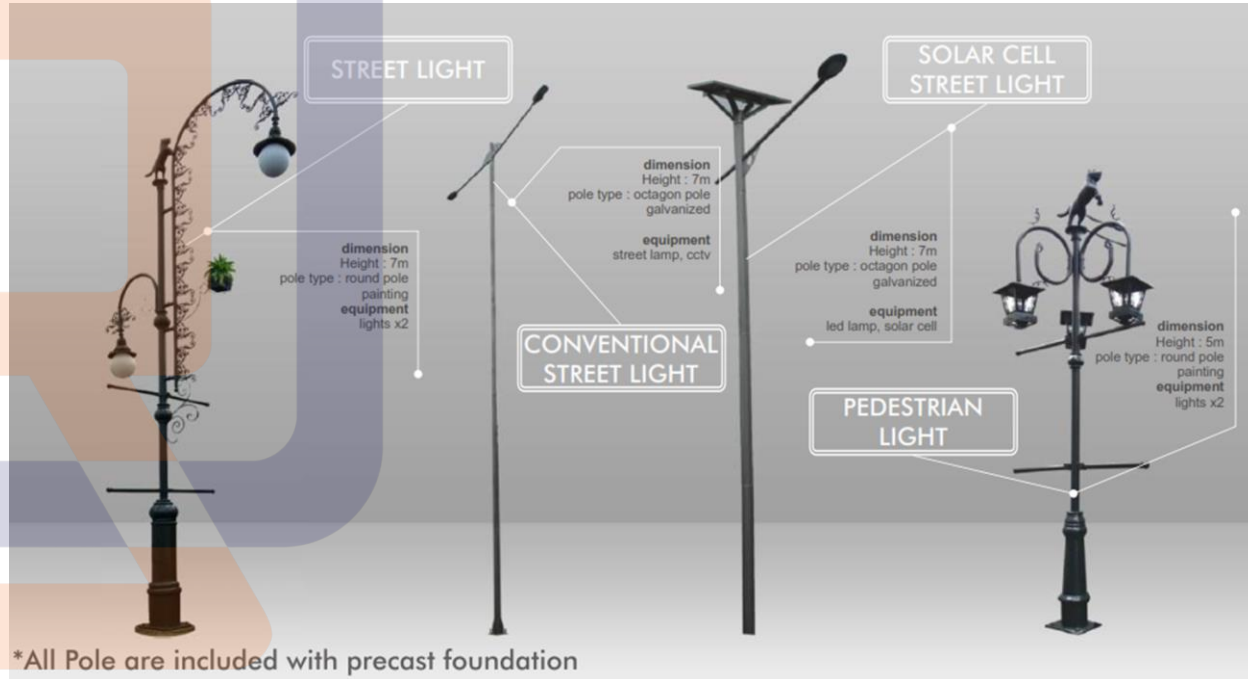
Smart pole
Radome

Microcell pole
Palm

Lamp Tower Solution



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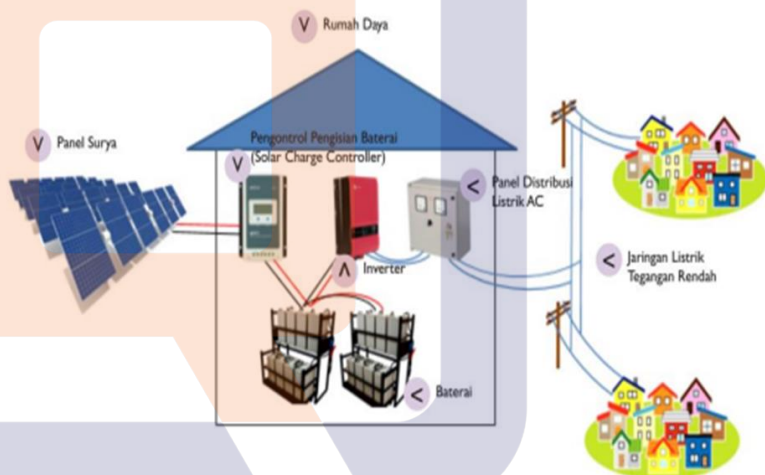




Energi Terbarukan & Mobile Power System



Energi Terbarukan



Mobile Power Solar Cell



- Sistem pole portable 6m dan solar power system 400wp terintegrasi sebagai solusi untuk sumber daya (tegangan listrik DC) di area yang tidak tersedia sumber daya (tegangan listrik DC) langsung dari PLN.
- Dirancang menggunakan mekanisme bongkar pasang dengan mudah memungkinkan perpindahan proses yang mudah. Pole bisa dinaikan menjadi maksimum 6 meter melalui mekanisme manual dan mengakomodir ruang untuk pemasangan perangkat-perangkat solar power system dan penangkal petir.
- Solar power system menggunakan kombinasi sumber daya tenaga matahari (pv) dan baterai untuk mensuplai daya. Komposisi tegangan output untuk beban 12VDC, 24VDC dan 220VAC dengan rekomendasi total daya beban maksimum 30 watt.



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Mobile Power Lusyta

Lusyta merupakan catudaya hibrid (Hybrid Power System) yang menggabungkan unit energi (generator set) dan penyimpanan energi (Bank Baterai) solusi untuk penyediaan sumber daya listrik berkelanjutan hingga 24 jam, untuk area – area yang terbatas akses layanan listrik dari PLN

Unit ini didesain khusus untuk solusi one stop power system yang tersusun atas subsistem :

- Generator set
- Rectifier dan Battery (jika dibutuhkan)
- Tangki BBM
- System Monitoring

Tersedia untuk kapasitas :

- 3000 W
- 3500 W
- ≥ 4500 W



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Mobile Power Lusyta



AC DIESEL GENSET
Generates AC electricity



RECTIFIER
Changes AC electricity current to DC

CONTROLLER
Controls charge and discharge of battery, and run and stop of genset



BATTERY
Electrical storage device



FUEL TANK



POWER CABINET/ENCLOSURE

Mobile Power Lusyta

Lingkup Layanan LUSYTA DC
Power System ini meliputi :

- Penyediaan
- Instalasi
- Pengoperasian, dan pemeliharaan
- System Monitoring



MEKANISME PERASIONAL



Ramah Lingkungan

Generator Hybrid jauh lebih bersih dan lebih ramah lingkungan untuk dioperasikan daripada generator konvensional



Skema Bisnis Fleksibel

Model OPEX, pelanggan hanya membayar biaya layanan bulanan, tidak ada lagi CAPEX / investasi awal, sehingga Klien dapat fokus pada bisnis inti



Biaya Operasional Lebih Rendah

Generator hibrida berjalan selama beberapa jam, bukan 24 jam per hari. Daya akan terus dipasok oleh generator atau baterai secara bergantian



Operasional Lebih Mudah

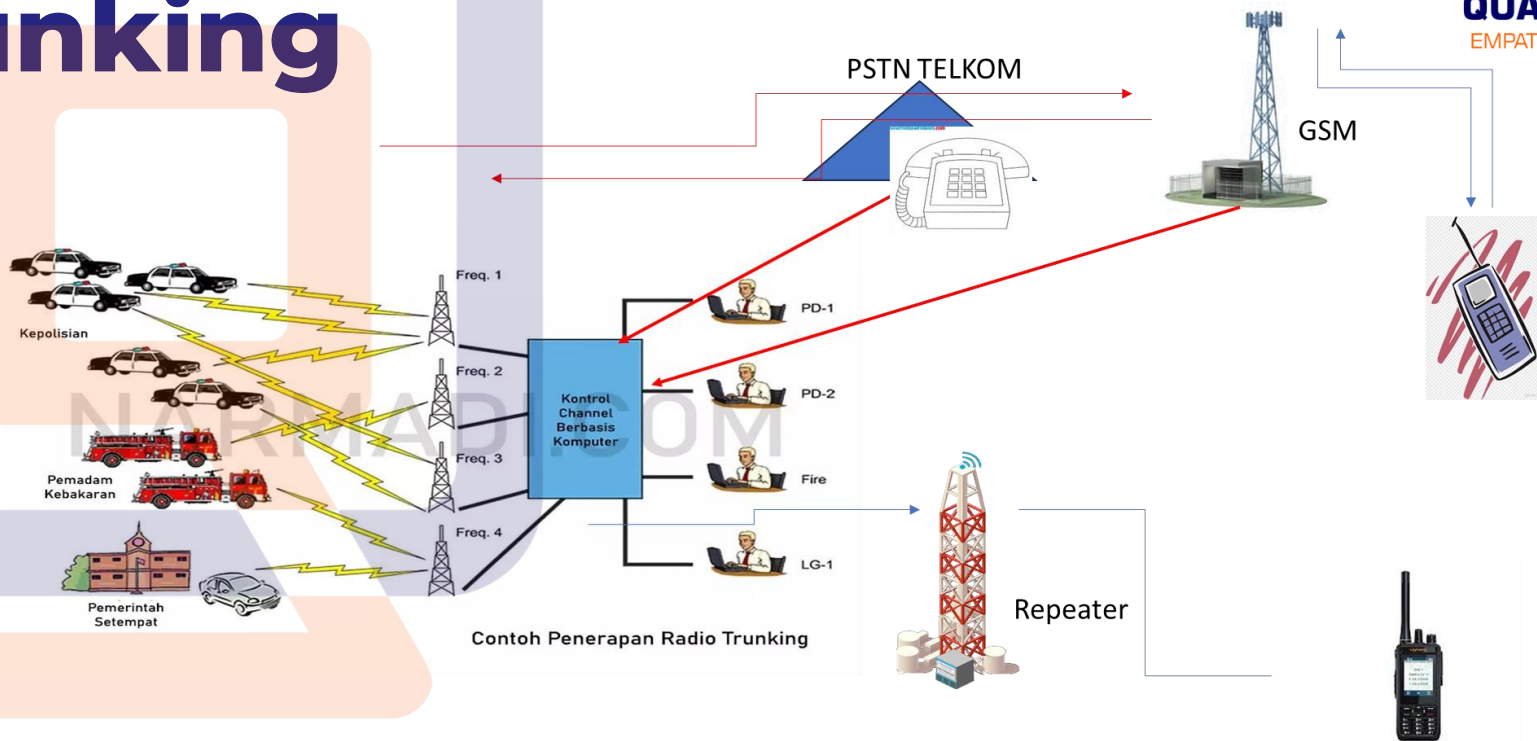
Klien terhindar dari kerumitan pembelian dan pengoperasian unit dan mengurangi kompleksitas masalah pemeliharaan catu daya dan unit terkaitnya



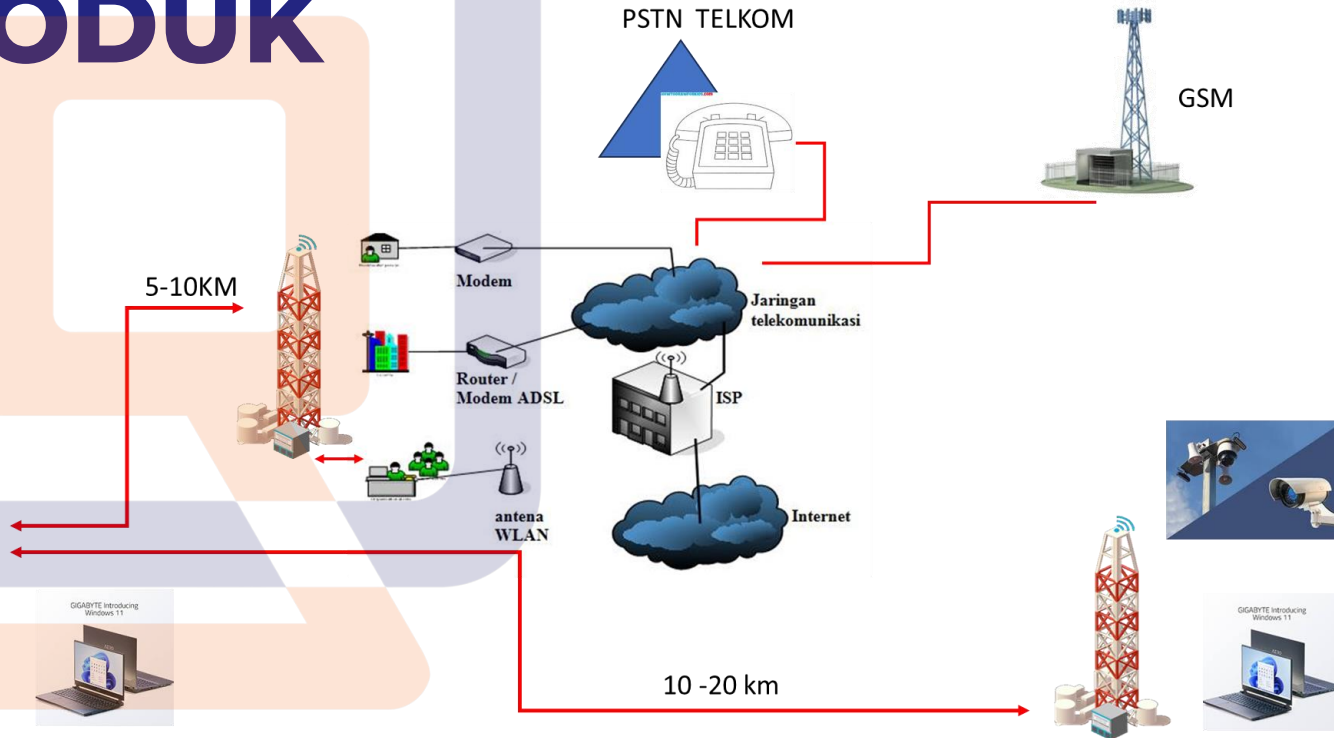
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Radio Trunking, Internet & CCTV

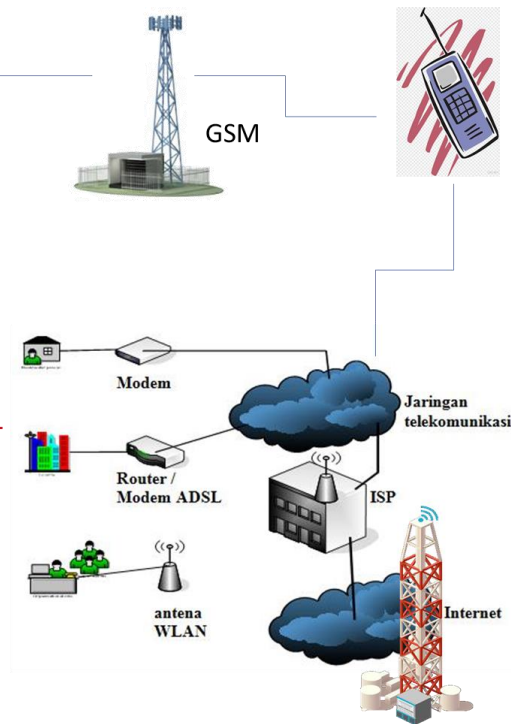
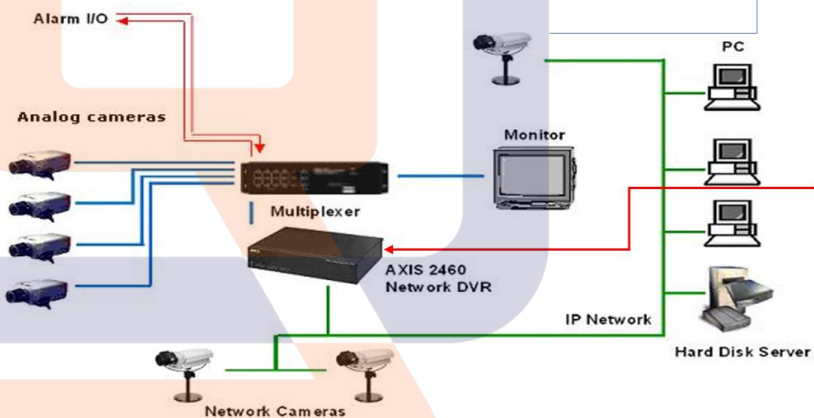
Radio Trunking



Internet PRODUK



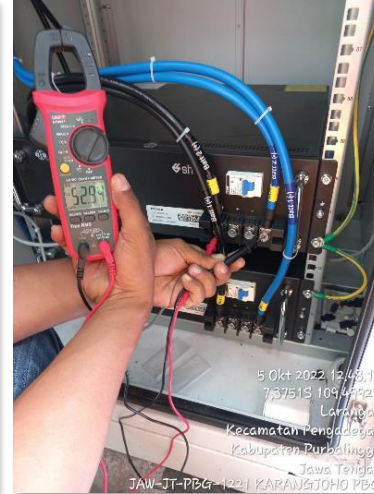
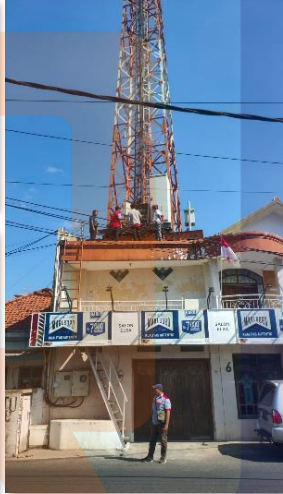
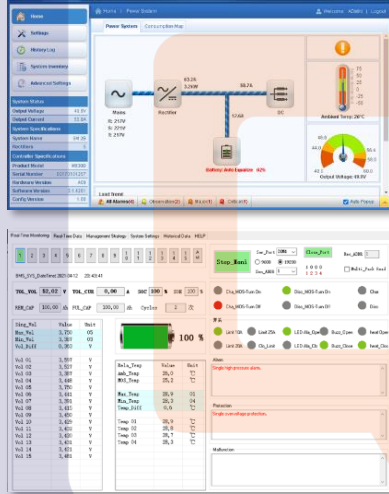
CCTV PRODUK



[← Back to Product](#)

JASA INSTALASI

INSTALASI RECTIFIER



Area Instalasi :

- Jawa Timur
- Bali
- Nusa Tenggara Barat
- Nusa Tenggara Timur

[← Back to Product](#)

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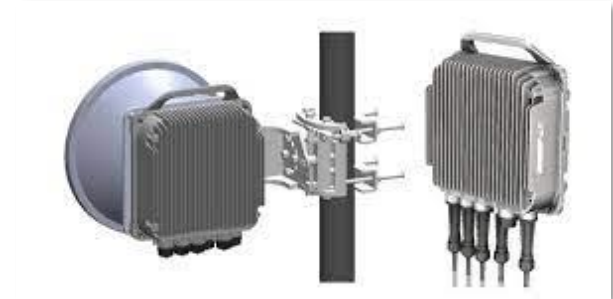
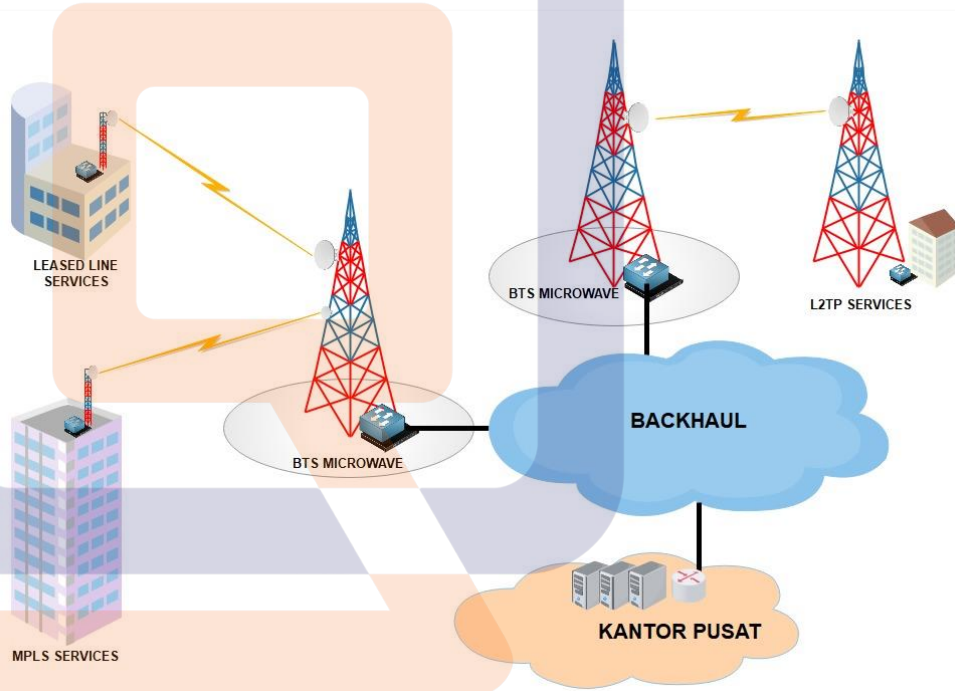


- Work at Height (WAH)
- Sertifikat L0
- Sertifikat L1
- Sertifikat L2
- Electric Safety

INSTALASI RADIO PTP MW



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Lisensi Frekuensi :
7GHz, 13GHz, 15GHz, 21GHz

PENARIKAN KABEL FIBER OPTIC



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PEMASANGAN KAMERA CCTV



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CONTACT US.



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