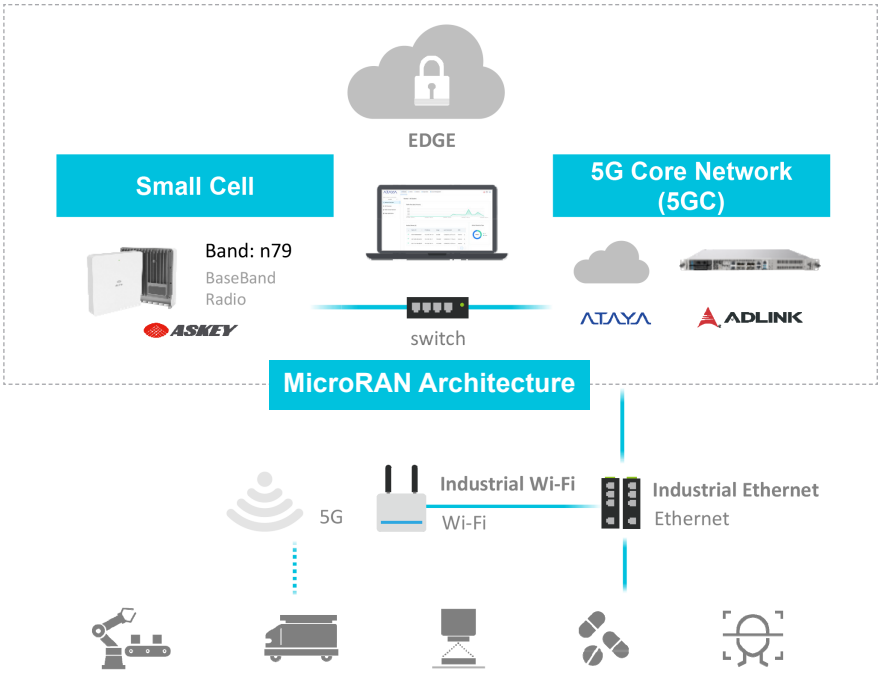
MicroRAN

All-in-one 5G Private Network Solution

Datasheet



Solution Package

- Field size: 50M x 60M
- Small Cell x1, Edge Server x1, 5GC software x1
  (Additional small cell may required for signal coverage, depending on application fields.)

Features

- Compact & simplified architecture
- Enhanced security
- Universal connectivity
- Easy Management
- 25x 5G UEs, unlimited Wi-Fi/ wired users
  (Additional 5G UEs can added by package upgrade)

Specifications

5G Core	Connectivity	5G, Wi-Fi, Wired
	Security	End-to-end: client, traffic, network, application with Actionable IT-OT security collaboration Access Control -Access/Block List -Policy based Access -Traffic Limits -Traffic Filtering Reduce Attack Surface -Client groups are isolated based on microsegmentation, segmentation, or DNN access policy Threat Control (with partners) -Enforcement via ACL, URL filtering, firewall, IPS/IDS

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Specifications

Small Cell	Band	n79
	Bandwidth	100Mhz
	Max. TX Power	24dBm
	Antenna	Internal/External 2x2 MIMO
	Backhaul	2.5G WAN/10G SFP+
	Power Supply	DC12V/POE++
	Power Consumption	<60 W
	Dimensions	250 x 250 x 65 mm (WxHxD)
	Weight	<2.5kG
	Environmental	Operating Temperature: -5°C to 40°C Operating Humidity: 90% maximum, noncondensing
Edge Server & Application Server	Edge Server CPU	Intel® Xeon® Ice Lake-D-1747NTE(2.0GHz 10C/80W)
	Memory	2x DDR4-2666 RDIMM, ECC, REG, 16GB
	Operating Systems	Ubantu 20.04 Server
	I/O Interfaces	**Front Access** 8x 10G SFP+ Ethernet ports 2x RJ-45 100/1000BASE-T Ethernet ports 1x USB 3.0/2.0 + 1x USB 2.0 1x RJ-45 console port 2x RJ-45 1PPS+TOD port 1x SMA port for GPS/Beidou signal **Internal** 1x COM port 1x VGA header 2x PPS CMMX header on motherboard 3x PPS/10M CMMX header on clock card **Clock Card (CLK-100)** DIP switch to change PPS source 1x PPS MMCX output header 1x PPS MMCX input header 1x 10M MMCX ouput header 1x 8-pin header for GNSS PPS/TOD and PLL I2C
	Expansion	1x PCIe 3.0 x16 (single slot FHFL) via riser card 1x PCIe 3.0 x8 (single slot FHFL) via riser card
	Storage	2x 2.5” hot-swappable SATA 6Gb/s, 256GB
	Dimensions	1U 19’’ rackmount 438 x 44 x 420mm (WxHxD)
	Power	450W 1+1 redundant PSUs 100V to 240V AC @50-60Hz -36V to -72V DC
	Weight	<7Kg
	System Temperature	Operating: -5 °C to +55 °C, 5% - 95%RH, non-condensing Note: Not including HDD and PCIe cards. Storage: -40 °C to +70 °C, 5% - 95% RH, non-condensing

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