



Summit

The Internet of **Your** things



The Summit is a powerful yet low-power, compact footprint monitoring and control platform designed for demanding remote site applications.

- Summit provides a broad range of high-density I/O and device / sensor interface configurations.
- With numerous backhaul methods supported, a network of Summit devices can easily be deployed over diverse and challenging geographies.
- Summit integrates natively with TASC Systems' Apex EMS software, but also works seamlessly with SNMP-capable Network Management Software (NMS).
- Summit features a built-in web administration user interface for easy system configuration.
- Summit is available in multiple chassis options including 19" rack mount, DIN-rail mount, general wall mount or NEMA enclosure.
- Summit supports direct DC power, ideal for battery-backed sites.
- Summit can be configured to include local storage for data logging and system scalability through additional software plug-ins.

Engineered for Multiple Applications

Summit's functionality and flexibility makes it an ideal system solution for a variety of deployments including:

- Critical Communication Radio Network Monitoring
- Essential Infrastructure Site Management (Utilities, Transportation)
- Remote Industrial Monitoring / Control
- Mobile Asset Management

Complete Site Integration

Summit offers a highly-scalable I/O architecture, ensuring that all sites, from basic to sophisticated, can be supported using a singular platform approach. Summit I/O options include:

- 48 digital inputs (expandable to 192) capable of accepting a wide input voltage range (up to 60 VDC) from contact closures, passive switches or solid state switching devices
- 16 digital outputs (expandable to 48) capable of switching up to 50 VDC @350mA per channel
- 32 analog inputs (expandable to 128) 16-bit A/D. capable of measuring 0 to 25 VDC or 4 to 20mA
- 4 analog outputs (expandable to 16) 16-bit D/A, capable of resolving 0 to 25 VDC or 4 to 20mA
- 8 RS-232 serial channels
- 2 Ethernet ports

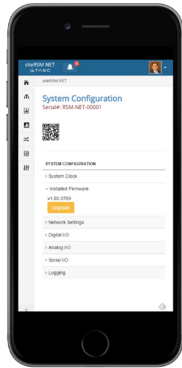
Filters, hold-times, qualifiers, and multi-level thresholds are available to ensure I/O validity. Summit's Advanced Logic option provides local control functionality.

Software Integration

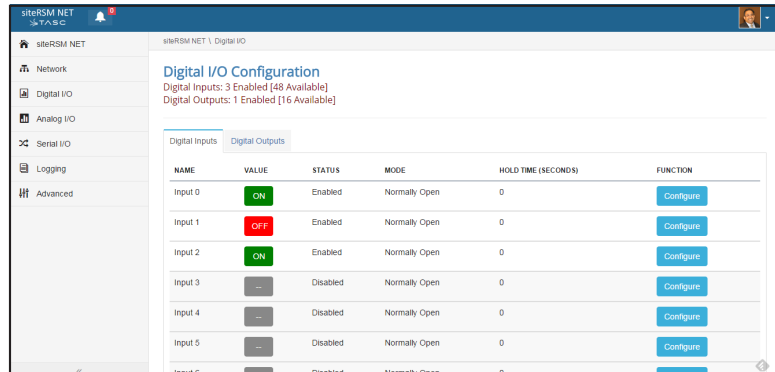
Apex EMS provides native support for all TASC Systems remote monitoring systems including the Summit platform. As an integrated command and control center for a network of Summit systems, Apex EMS can monitor for any network exception activity and provide real-time alerts to system administrators and network technicians. To assist problem resolution, Apex EMS provides extensive troubleshooting and analysis tools. Summit integrates directly with network operations centers that use IT-standard protocols like SNMP to monitor network performance. With built-in SNMP reporting, Summit provides critical real-time health information for remote network nodes.



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Mobile Interface



Configuration Interface

Hardware Specifications	
Power	
Range	+8 VDC to +48 VDC
Current Consumption	350mA Maximum (+12v supply)
Operating Temperature	
	-40° to + 65° C
Digital I/O	
Inputs	Support for contact closure, switches, open collector, or voltage inputs.
Default / Max (per RTU)	48 channels / 192 channels
Input range	0 to 60 VDC
Filters	Hold time, threshold, software defined qualifiers
Outputs	Open drain outputs, 350 mA per channel
Default / Max (per RTU)	16 channels / 36 channels
Output range	Up to 50 VDC
Analog I/O	
Inputs	Multiple thresholds can be defined
Default / Maximum (per RTU)	32 channels / 128 channels
Input Range	0 to 25 VDC or 4 to 20mA (24-bit resolution)
Filters	Hold time, threshold, software defined qualifiers
Outputs	
Default / Maximum (per RTU)	4 channels / 16 channels
Output Range	0 to 20 VDC or 4 to 20mA (16-bit resolution)
Serial Ports	
	2 ports (default configuration) / Expandable up to 8 ports (per RTU) / 4 ports configurable (RS232/ RS422 / RS485)
Ethernet	
	2 Ports, 10/100/1000 Base-T Fast Ethernet
Visual Indicators	
	Front Panel: Multi-Color LED / Rear Panel: Ethernet status
Enclosure Options	
	19" Rack 1U (1.75in) / DIN-Rail Mount / Wall Mount / NEMA Enclosure

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