

SENTRY

2X2 RFoIP ADC/DAC Outdoor Unit

S-ODU-ADC2DAC2-N50-M

The **SENTRY** outdoor unit enables RF over IP transport for digitized and encapsulated RF signals anywhere over an IP network. This new technological advancement immensely expands the possibilities in the virtualization of the ground segment; resulting in improved operational efficiencies, flexibility and new possibilities. Eliminating physical distance is a key benefit when converting RF to IP and has taken great care to achieve this while preserving the Carrier-to-Noise Ratio (CNR) and timing to reliably recover the signal at the downstream device.

950-2150 MHz Operating Range

4 RF Ports (2 ADC X 2 DAC)

500-600MHz selectable BW per channel, 1GHz BW Optional

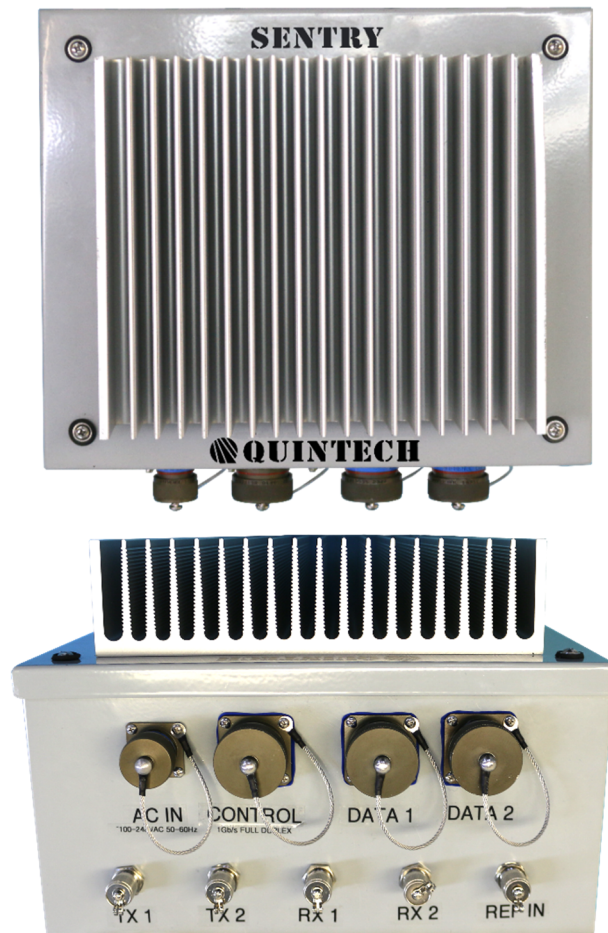
500MHz, 600MHz and optional 1GHz Bandwidth selectable

10MHz Reference input

DIFI 1.1 (VITA49) TCP/IP Unicast/Multicast 4-16 bit

Web or SNMP control. Interfaces to MAGNUM and VUE NMS System

100 GbE backhaul using LC/UPC Duplex 1310nm WDM Fiber



250 Airport Road • Indiana, PA 15701 • (800) 839-3658 • (724) 349-1412 • Fax: (724) 349-1421

<http://www.quintechelectronics.com/> • info@quintechelectronics.com

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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

SENTRY

2X2 RFoIP ADC/DAC Outdoor Unit

Specifications and Operating Conditions

ADC	
Configuration:	2 ADC
Operating Frequency:	950-2150MHz
Instantaneous Bandwidth:	500, 600MHz Standard; 1GHz Optional
Sample Bit Depth:	4-16 bits
Center Frequency Resolution:	1 kHz
RF Flatness:	+/- 0.5dB (36MHz) +/- 1dB (600MHz) +/- 1.5dB (1000MHz)
Max Input power:	0dBm full scale (5dBm no Damage)
10MHz Reference Input:	-7 to +14dBm

DAC	
Configuration:	2 DAC
Operating Frequency:	950-2150MHz
Instantaneous Bandwidth:	1-600MHz standard; 1GHz Optional
Sample Bit Depth:	4-16 bits
Center Frequency Resolution:	1 kHz
RF Flatness:	+/- 0.5dB (36MHz) +/- 1dB (600MHz) +/- 1.5dB (1000MHz)
Max Output power:	5 dBm
10MHz Reference Input:	-7 to +14dBm

Phase Noise	
100Hz	-70dBc/Hz
1KHz	-85dBc/Hz
10KHz	-80dBc/Hz
100KHz	-100dBc/Hz
1MHz	-110dBc/Hz

Phase Noise	
100Hz	-70dBc/Hz
1KHz	-85dBc/Hz
10KHz	-80dBc/Hz
100KHz	-100dBc/Hz
1MHz	-110dBc/Hz

RFoIP Data Port:	100GbE LC Duplex 1310nm WDM
Protocol:	DIFI 1.1 (VITA-49) Unicast (TCP) or Multicast UDP Transport
Monitor and Control:	1Gbps Ethernet RJ-45

RFoIP Data Port:	100GbE LC Duplex 1310nm WDM
Protocol:	DIFI 1.1 (VITA-49) Unicast (TCP) or Multicast UDP Transport
Monitor and Control:	1Gbps Ethernet RJ-45

Power and Cooling Requirements:	
AC Input Range:	100-240VAC 50/60Hz
Power Consumption:	80 W typical

Physical:	
Dimensions:	12.125" X 8.625" X 10.875"
Weight:	25 lbs.
IP Rating:	IP66
RF Connector Type:	N(f) 50Ω

Environmental Parameters:	
Operating Temperature:	-40° C to 60° C
Storage Temperature:	-40° C to 80° C

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Ordering Options and Configurations

S-ODU-ADC2DAC2-N50-M

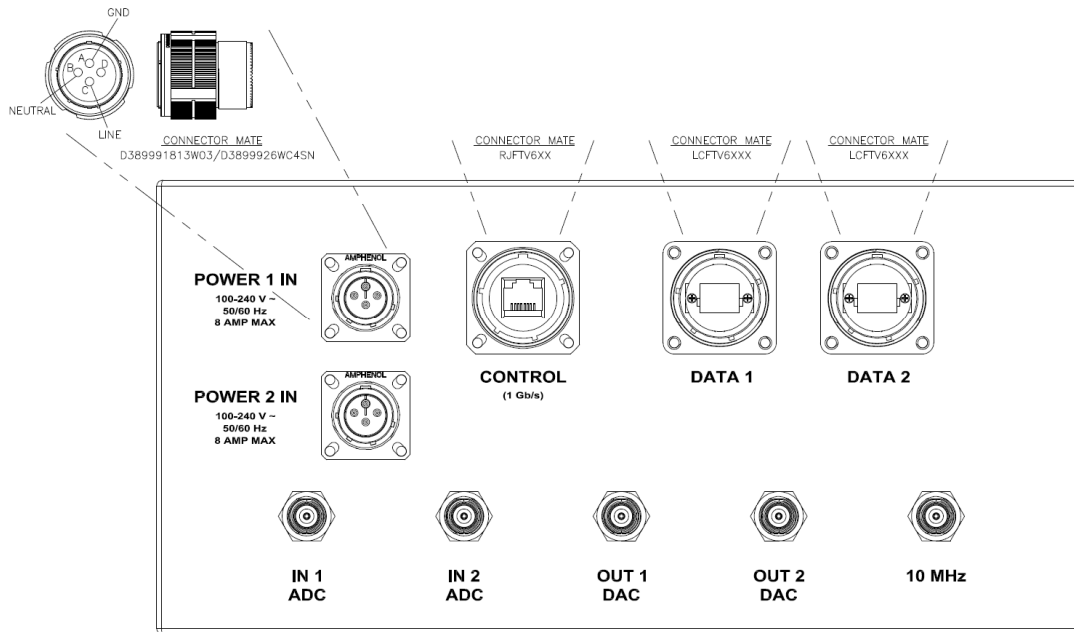
2 ADC 2 DAC Channels (600MHz)

S-ODU-DUALAC

Dual Redundant AC Supplies

S-1GHZ-BW

1GHz BW (software option)



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