

Digital Conversion Subsystem (DCS)

Wideband Conversion for Digital IF SATCOM Applications

The Digital Conversion Subsystem (DCS) performs wideband analog-to-digital conversion (ADC) and digital-to-analog conversion (DAC) for Digital IF satellite communication (SATCOM) terminals. The DCS is compliant with the Future Advanced SATCOM Technologies (FAST) Open Standard Digital IF Interface (OSDI). The DCS transports digitized and encapsulated wideband signals over Ethernet to/from the Wideband Signal Processor (WSP).



Features & Benefits

- Compliant with the FAST Open Standard Digital IF Interface (OSDI)
- Scalable architecture with one DCS per antenna/polarity
- Analog L-band interfaces (1 to 2 GHz) for transmit and receive intermediate frequencies (IFs)
- Multi-GbE interfaces for compatibility with a FAST-compliant WSP and COTS Ethernet switches
- 1 GbE SNMP interface for remote monitor and control
- 10 MHz, 1 Pulse Per Second (PPS), and Precision Time Protocol (PTP) interfaces for timing and synchronization
- Vita-49 compliant encapsulation of signal samples
- Industry standard 19" rackmount Advanced TCA chassis provides high availability with redundant, hot-swappable power supply modules



Wideband Signal Processor

Pr 13 Sep 2014 09:22:21 MST
Last Login: 13 Sep 2014 11:14:13

Component not selected

Home Sets Configuration Maintenance System Status SNMP Operations Tests Manage Users Cancel Set Original LOGOUT

Home
Sets
Configuration
Maintenance
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SNMP
Operations
Tests
Manage Users
Change Password

SNMP Management Information

SNMPv3 Security Credentials

User Name: Authentication protocol: Authentication password:
 Privacy protocol: Privacy password:

Available SNMP agents and MIBs

Select a SNMP agent: Select a MIB to view:

Current SNMP Information

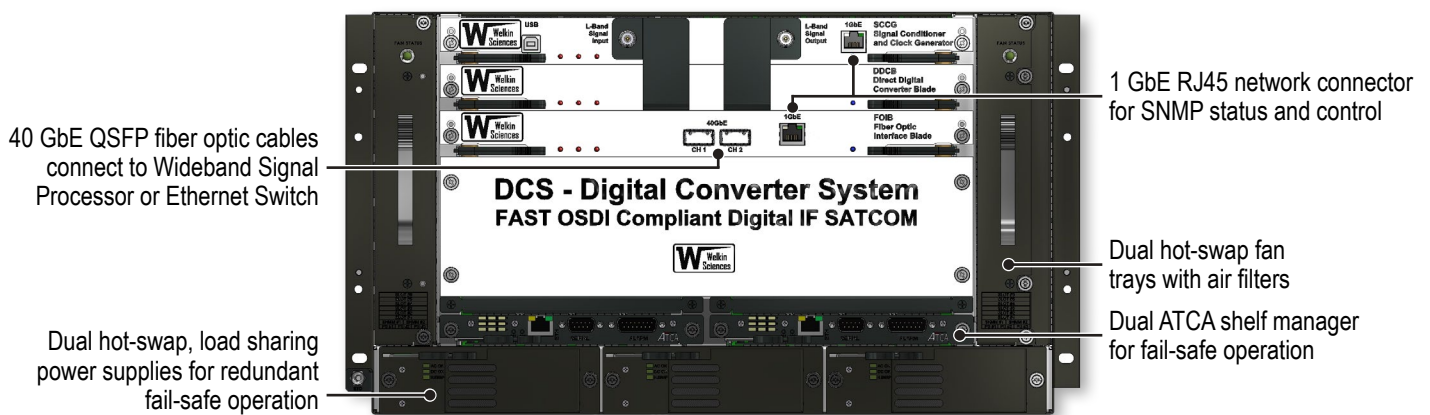
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UCD-SNMP-MIB::snmperrIndex.o	Integer	0
UCD-SNMP-MIB::snmperrNames.o	String	snmp
UCD-SNMP-MIB::snmperrErrorFlag.o	Integer	0
UCD-SNMP-MIB::snmperrErrorMessage.o	String	

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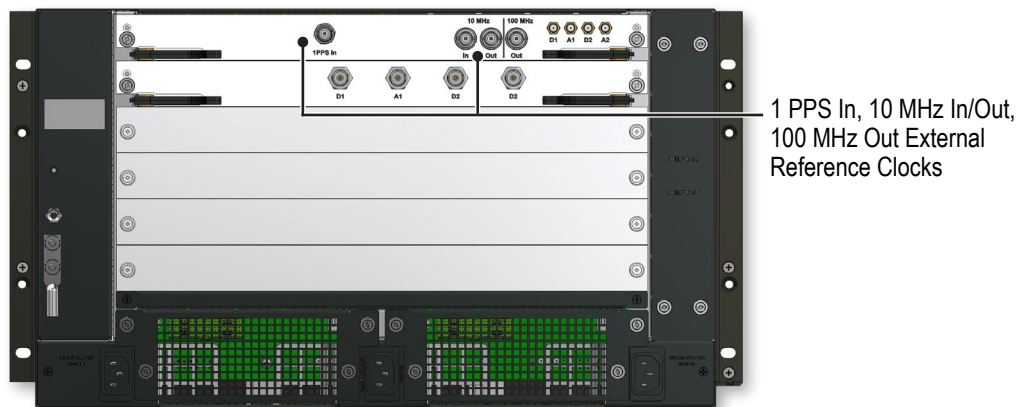
DCS Capabilities

Analog Signal Interfaces	1.0 to 2.0 GHz Transmit and Receive (coax)	Digital Signal Interfaces	Two 40 GbE Ports (fiber)
Aggregate Bandwidth	1.0 GHz	Analog Clock Interfaces	10 MHz IN/OUT, 100 MHz OUT (All are +10 dBm nominal)
Broadband Power Levels	Receive: -5 dBm Max Transmit: -40 to 0 dBm	Digital Timing Interfaces	1PPS PTP
Dynamic Range	Broadband Transmit and Receive AGC with user-defined set points	Monitor & Control Interface	1 GbE SNMPv3
Carrier Capacity	Any number of carriers within the 1.0 to 2.0 GHz bandwidth	Chassis	19" rackmount, 6 RU Dual-redundant, hot-swappable power supplies

DCS Front Interfaces and Features



DCS Rear Interfaces



For further information on our products, email request to info@welkinsciences.com.



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