

## iDirect iSCPC Concentrator

The iDirect iSCPC concentrator is a fully integrated, feature rich, system offering service providers a smart, economical way to handle SCPC-exclusive traffic and leverage the industry's leading NMS (Network Management System) at the same time.

The iSCPC concentrator is a compact, 20 slot chassis, fully integrated with the latest value-added features from iDirect. This, combined with the same industry-leading iVANTAGE™ NMS provides an ideal solution for the SCPC market.



### Compact Design Brings Big Savings

The iSCPC chassis comes fully loaded with 20 SCPC line cards. This single, compact chassis configuration means nearly a 50% rack space savings from the start. Installing and activating new links is easy — there's never a need to connect additional cables or IP routers.

### Fully Integrated, Advanced Features Built In

Everything you need is built-in, including additional functionality:

- ◆ Full QoS functionality for prioritization of critical applications, including the most flexible traffic prioritization
- ◆ Integrated TCP and Web acceleration for an all-around improved user experience and better bandwidth utilization
- ◆ Turbo Product Codes for the most efficient forward error correction. Increased coding gain and lower decoding delay than traditional FEC mean greater bandwidth savings.
- ◆ Full line card 1:N redundancy in the chassis\* reduces downtime and improves customer satisfaction

### Greater Network Management and Control with the Proven iDirect iVANTAGE NMS

- ◆ Provides centralized network and capacity management tools
- ◆ Reap all the benefits of one-stop monitoring and control from anywhere
- ◆ Minimizes the need for additional operations or technical staff training
- ◆ Automated fault notification and diagnostics with real-time statistics for a richer source of the most current data

\*Future

### Features

- ◆ Data rates up to 20 Mbps per link
- ◆ High density, compact design with 45% rack space savings
- ◆ 1:N redundancy\*
- ◆ Bundled with industry-leading iVANTAGE™ NMS
- ◆ Simplified cabling

## iDirect iSCPC Concentrator Model 15051



<b>SatCom Interfaces</b>	5 TxIF Ports: Type-F, 950–1700 MHz 5 RxIF Ports: Type-F, 950–1700 MHz 5 independent, 4-to-1 L-Band combiner for Tx 5 independent, 4-to-1 L-Band divider for Rx
<b>RF Power Range</b>	Transmit: -43 dBm to -3 dBm (Rear Output Connector) Receive: -57 dBm to +5 dBm composite (Rear Output Connector)
<b>Line Card Slots</b>	20
<b>Remote requirements Management</b>	Works with iINFINITI 5000, 7000 or 8000 series remotes
<b>Line Card Specifications</b>	
<b>Model</b>	Requires M1D1-iSCPC
<b>Data Interfaces</b>	Up to 20 Mbps per card
<b>FEC</b>	Turbo Product Codes 0.431, 0.533, 0.793, 0.879
<b>Modulation Scheme</b>	QPSK/BPSK/8PSK
<b>Network Access Scheme</b>	SCPC
<b>LAN Protocols Supported</b>	TCP, UDP, ICMP, IGMP, ARP, RIP v2, Static Routes, Web Acceleration, TCP Acceleration
<b>LAN Interface</b>	Category-5/5e/6 UTP/STP, 1000BASE-T Ethernet (IEEE 802.3ab). Maximum cabling distance is 328 feet (100 m)
<b>Line Card Redundancy</b>	1:N (future)
<b>Power Specifications</b>	
<b>Input Voltage Range</b>	100VAC -240 VAC single phase
<b>Frequency</b>	47Hz–63Hz
<b>Current Consumption</b>	At 100 VAC ≤8.0 Amps maximum, at 240 VAC ≤4.0 Amps maximum
<b>Power Supply Redundancy</b>	1+1 redundant Hot-swappable
<b>Mechanical and Environmental</b>	
<b>Dimensions</b>	W 17.5 in x D 24.0 in x H 19.0 in
<b>Weight</b>	Empty: ~94 pounds (42.6 Kg) Loaded: ~122 pounds (55.3 Kg)
<b>Operating Temperature</b>	32°F to 113°F (0°C to 45°C), up to 90% non-condensing humidity
<b>Operating Altitude</b>	≤10,000 feet (3048m)
<b>FAN Redundancy</b>	2+1 Hot-swappable
<b>Emission Standards</b>	Complies with CFR 47 FCC Part 15 Class B, CISPR-22 Class B, ICES-003 Class B, EN 55022 Class B, EN 301-428, EN 301-443, EN 61000-3-2, EN 61000-3-3
<b>Safety Standards</b>	Complies with UL60950-1, CAN/CSA-C22.2 NO. 60950-1 -03, IEC/EN 60950-1
<b>Immunity Standards</b>	Complies with EN 301-489-1, EN 301-489-12, EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11