ULC-R Line Card

The universal receive line card, ULC-R, features multi-channel Adaptive TDMA demodulation for inbound traffic with an aggregate symbol/chip rate of up to 29 Msps/Mcps. In conjunction with a modulator line card (e.g. ULC-T), the ULC-R supports efficient inbound FEC with 2D 16-State coding, making it ideally suited for voice, video and data applications in enterprise and mobility networks on both the ST Engineering iDirect Evolution® and Velocity™ platforms.

Network Configuration

Network Technology	Adaptive TDMA
Modem	Demodulates up to 16 channels
Modulation	SS-BPSK (SF: 2/4/8), BPSK, QPSK, 8PSK, 16QAM*
FEC	2D 16-State 1/2-6/7
Carrier Parameters	Minimum: 128 ksps Maximum: 29 Msps/Mcps Maximum aggregate symbol/chip rate: 29 Msps/Mcps

Interoperability

Compatible with Series 15100 Universal Hub (5IF/20 Slot) Requires Evolution 3.4 software or above / Velocity 1.1 software or above

* Feature is platform and release dependent

Interfaces

SatCom Interfaces

RxIF In: Type-F, 950–2000 MHz, -5dBm (max) composite, -130+10*log(Fsym)dBm (min) single carrier RxIF Out: Type-F (Monitor)

Data Interfaces

GigE LAN A: Data & Control; GigE LAN B: Data & Control. Link Aggregation. Console: RS232 over RJ-45

Timing Interface

Locked to customer supplied PPS/10 MHz through backplane

Mechanical & Environmental

Redundancy	Software controlled, hot-swappable, and auto-failover
Weight	0.83 kg (1.48 lbs)
Operating Temperature	0° to +45°C (+32° to +113°F)
Humidity	0–95% non condensing
Input Voltage	24V, 65W (max)

EVOLUTION

VELOCITY

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Newtec iDIRECT