![ST Engineering logo]

# ILC-T Line Card

The Intelligent Transmit Line Card, ILC-T, is a compact, high performance line card compatible with the Intelligent Hub (iHub). It supports DVB-S2 or DVB-S2X on up to four simultaneous carriers. The ILC-T supports an aggregate bandwidth of 500MHz across a 2.4GHz range from 950MHz to 2450MHz. When installed in the iHub along with an ILC-R multi-channel demodulator line card, the ILC-T is ideally suited for HTS Satellite Operators and Service Providers on the iDirect Velocity® platform.

## Network Configuration

| | |
|---|---|
| Network Technology | Four independent carriers supporting simultaneous modulation of DVB-S2 or DVB-S2X waveforms |
| Symbol Rate* | DVB-S2: 1 to 45 Msps<br>DVB-S2X: 1 to 475 Msps |
| Roll-off Factors | 5%, 10%, 15%, 20% |

### Interoperability

Compatible with Intelligent Hub (iHub)
Requires Velocity 3.3.1 software or above

## Interfaces

### SatCom Interfaces
TxIF: SMA, 950-2450 MHz, -40dBm to 0dBm power

### Data Interfaces
10GbE interface via iHub backplane

### Timing Interface
Locked to iHub Timing Module 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) |

\* Maximum supported symbol rate is platform and software release dependent

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