



Industrial Temperature (I-Temp) Operation for Cisco ONS 15454 MSPP

Introduction

Cisco continues to lead and innovate in the metro optical transport space with new developments, such as full Industrial Temperature (I-Temp) Operation capability for a suite of ONS 15454 service modules. The Cisco ONS 15454 is the industry's leading multiservice provisioning platform (MSPP), with over 900 customers and 30,000 systems deployed. The ONS 15454 delivers supercharged SONET/SDH transport, integrated optical networking including ITU Grid Wavelengths and DWDM, unprecedented multiservice interfaces and radical economic benefits for service providers.

Application

To accommodate the increased market demand for high bandwidth consumer and business services in the metro, today's service providers must deploy access devices, such as DSL, cable modems, and fixed wireless. Once deployed, these access devices are the termination points for large amounts of bandwidth. This forces the need for higher bandwidth transport solutions that will efficiently, cost effectively, and safely transport the bandwidth to the service provider's central office. Many access devices are deployed in remote huts, vaults or cabinets, where there is little, if any temperature control. The ONS 15454 with I-Temp capability will enable service providers to reach these remote environments with a scalable, flexible, and cost effective transport solution.

ONS 15454 Industrial Temperature Operation

Deployed with I-Temp circuit packs, the ONS 15454 metro optical transport platform now makes it easy for service providers to deploy bandwidth to non-environmentally controlled remote facilities. Leveraging I-Temp capabilities, service providers can deploy SONET protected bandwidth to their remote facilities, while also ensuring higher service levels than proprietary transport platforms. The compact footprint, low power consumption and radical economics of the ONS 15454 make it an ideal deployment solution for networks where remote facilities and cost must be considered. Additionally, the ONS 15454 platform provides the scalability and wide service interfaces required to be deployed in all part of the service providers metro transport network.

Industrial Temperature Feature

Extended Operational Temperature

- -40 to +65 degrees Celsius, non-condensing humidity

Backward Compatibility

The industrial temperature rated circuit packs listed in Table 1 are compatible with all currently deployed releases of the ONS 15454 system software. I-Temp rated circuit packs can be mixed and matched, as protect cards or within protection groups, with previous versions of commercial temperature (C-Temp) circuit packs in applications where operating temperatures range from -5 to +50 Celsius.

Availability

The Cisco ONS 15454 I-Temp rated circuit packs listed in Table 1 are currently orderable and available for immediate shipment starting August 15, 2002.

Ordering Information

The circuit packs listed in Table 1 are qualified to operate in I-Temp environments. For proper operation in industrial temperature environments, all I-Temp rated ONS 15454 components must be utilized.

Table 1

ONS 15454 Equipment Supporting I-Temperature Operation

Product Name	CLEI Code*	Description of Replacement Circuit Pack
Shelf Assembly and Fan Tray		
15454-SA-ANSI	All	Shelf Assembly, ONS 15454, ANSI version, I-Temp rated
15454-FTA3-T	All	Fan Tray Assembly, ONS 15454, for ANSI shelf assembly
Common Cards		
15454-AIC	SN1PHHMFAA	Alarm Interface Control card, I-Temp rated
15454-AIC=	SN1PHHMFAA	Alarm Interface Control card, I-Temp rated (spare)
15454-TCC+	WM1CNRCDA	Timing Communications Control Plus card, I-Temp rated
15454-TCC+=	WM1CNRCDA	Timing Communications Control Plus card, I-Temp rated (spare)
15454-XC-VT	SNUXZW1EAA	Cross-connect card, 576 STS and 672 VT1.5, I-Temp rated
15454-XC-VT=	SNUXZW1EAA	Cross-connect card, 576 STS and 672 VT1.5, I-Temp rated (spare)
Electrical Interface Cards		
15454-DS1-14	SNTUAASBAA	DS1 card, DSX, 14 CKT, I-Temp rated
15454-DS1-14=	SNTUAASBAA	DS1 card, DSX, 14 CKT, I-Temp rated (spare)
15454-DS1N-14	SNTUAARBAA	DS1 card, 1:N (N 5), DSX, 14 CKT, I-Temp rated
15454-DS1N-14=	SNTUAARBAA	DS1 card, 1:N (N 5), DSX, 14 CKT, I-Temp rated (spare)
15454-DS3-12	SNTUBBLBAA	DS3 card, DSX, 12 CKT, I-Temp rated
15454-DS3-12=	SNTUBBLBAA	DS3 card, DSX, 12 CKT, I-Temp rated (spare)
15454-DS3N-12	SNTUBBKBA	DS3 card, 1:N (N 5), DSX, 12 CKT, I-Temp rated
15454-DS3N-12=	SNTUBBKBA	DS3 card, 1:N (N 5), DSX, 12 CKT, I-Temp rated (spare)
15454-DS3-12E	WMIUT10JAB	DS3 card, DSX, Enhanced PM, 12 CKT, I-Temp rated
15454-DS3-12E=	WMIUT10JAB	DS3 card, DSX, Enhanced PM, 12 CKT, I-Temp rated (spare)
15454-DS3N-12E	WMIUT1GJAB	DS3 card, 1:N, DSX, Enhanced PM, 12 CKT, I-Temp rated
15454-DS3N-12E=	WMIUT1GJAB	DS3 card, 1:N, DSX, Enhanced PM, 12 CKT, I-Temp rated (spare)
15454-DS3XM-6	SND1R18GAA	DS3 card, DSX Transmux, 6 CKT, I-Temp rated

Product Name	CLEI Code*	Description of Replacement Circuit Pack
15454-DS3XM-6=	SND1R18GAA	DS3 card, DSX Transmux, 6 CKT, I-Temp rated (spare)
15454-EC1-12	SNTUCBUBAA	EC1 card, 12 CKT, I-Temp rating
15454-EC1-12=	SNTUCBUBAA	EC1 card, 12 CKT, I-Temp rated (spare)
Optical Interface Cards		
15454-OC34IR1310	SN98BBMBAA	OC3 card, IR, 1310nm, 4 CKT, I-Temp rated, SC
15454-OC34IR1310=	SN98BBMBAA	OC3 card, IR, 1310nm, 4 CKT, I-Temp rated, SC (spare)
15454-OC121IR1310	SN98EHLBAA	OC12 card, IR, 1310nm, 1 CKT, I-Temp rated, SC
15454-OC121IR1310=	SN98EHLBAA	OC12 card, IR, 1310nm, 1 CKT, I-Temp rated, SC (spare)
15454-OC121LR1310	SN98FHNBAA	OC12 card, LR, 1310nm, 1 CKT, I-Temp rated, SC
15454-OC121LR1310=	SN98FHNBAA	OC12 card, LR, 1310nm, 1 CKT, I-Temp rated, SC (spare)
15454-OC121LR1550	SNTUFCNBAA	OC12 card, LR, 1550nm, 1 CKT, SC, I-Temp rated
15454-OC121LR1550=	SNTUFCNBAA	OC12 card, LR, 1550nm, 1 CKT, SC, I-Temp rated (spare)

* I-Temp CLEI codes at time of publication (July 2002).

More Information

For more information on the ONS 15454, go to <http://www.cisco.com/warp/public/cc/pd/olpl/metro/on15454/>

To order Cisco Equipment, please visit our web site at: <http://www.cisco.com>



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