

MARS622 P (TADM04622) SONET/SDH 155/622 Mb/s Add/Drop Data Interface

Introduction

This data addendum along with the *MARS2G5 P (TADM042G52) SONET/SDH 155/622/2488 Mb/s Add/Drop Interface Advance Data Sheet draft copy (DS02-015SONT)* is the advance data sheet for the TADMST622 V2.3 SONET/SDH interface device. The TADMST622 V2.3 provides a versatile solution for quad STS-3/STS-1 and single STS-12/STM-4 linear and ring datacom/telecom applications.

Constructed using COM2 CMOS modular process, this device incorporates integrated SONET/SDH framing, section/line/path termination, pointer processing, cross-connect functionality, and a powerful data engine. The integrated circuit provides complete encapsulation and de-encapsulation for packet and ATM streams into and out of SONET/SDH payloads.

Communication with the device is accomplished through a generic microprocessor interface. The device supports separate address and data buses.

Construction of different types of linear and ring STS-3/STS-12 (STM-1/STM-4) data equipment is simplified and cost-efficient when using the TADMST622 device.

For the TADMST622 V2.3, all references to STS-48 mode in the MARS2G5 P (TADM042G52) data sheet should be disregarded. In addition, the electrical characteristics and the reset default values of the registers shown in the data sheet do not necessarily apply to the TADMST622 V2.3 792-pin package device.

Package Information

The TADMST622 V2.3 is available in a 792-pin PBGA package (TADMST622-BA23-DB). Refer to the TADM042G52 advance data sheet draft copy (DS02-015SONT) for the package outline diagram.

TADMST622 V2.3 Limitations with Respect to TADM04622 V2.3

TADMST622 V2.3 is intended for use in quad OC-3 or single OC-12 TADM applications. It has the following limitations with respect to TADM04622 V2.3:

- Only UTOPIA interfaces A and B are functional. Interfaces C and D are not functional.
- All 1.6 V core power supplies are now 1.5 V (1.425 V minimum, 1.5 V typical, 1.575 maximum).

Pin Information

Refer to the TADM042G52 advance data sheet draft copy (DS02-015SONT) for the pin descriptions.

Ordering Information

Device Code	Version	Package	Temperature	Comcode (Ordering Number)
TADMST622-BA23-DB	2.3	792-pin PBGA	-40 °C to +85 °C	700058139

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