



TTConnect 616

Off-Highway Ethernet Switch



Key Benefits

- ✓ Configurable Ethernet switch support for 100BASE-TX and 100BASE-T1 interfaces
- ✓ Up to seven Ethernet ports for distribution of vehicle data
 - 6 x 100BASE-T1
 - 1 x 100BASE-TX
- ✓ Suited for operation in the extreme environmental conditions' characteristic of off-highway vehicle applications

TTConnect 616 is designed for application development and the support of Ethernet in-vehicle network architectures.

The versatile switch includes 6 x 100BASE-T1 BroadR-Reach® physical layer interfaces that enable 100 Mbit/s full-duplex communication over unshielded twisted single pair (UTSP) cabling. TTConnect 616 was specifically developed for vehicles and machines used in rugged operating environments and at extreme operating temperatures. It is protected by proven, robust and compact housing, designed for the off-highway and agricultural industry.

Use Cases

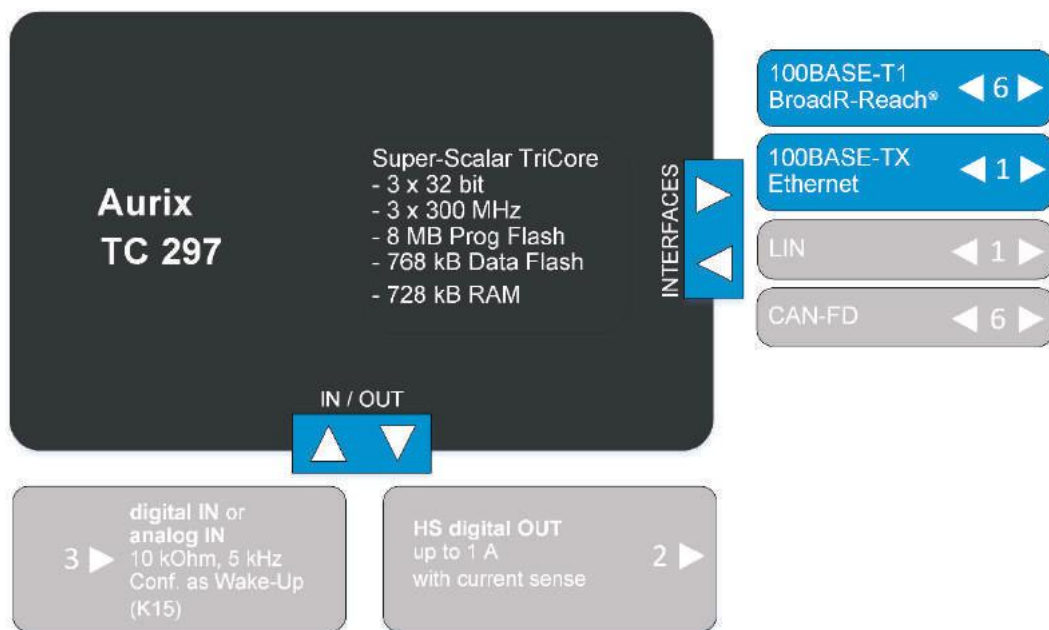
- Ethernet switch:
 - connect sensors and cameras to displays and control units
 - High-speed backbone for connecting vehicle domains
 - Media converter
- Fast access for service tools via widely available 100BASE-TX Ethernet
- Fast software updates, enhanced debugging, logging and diagnostic features



Product Features

<p>CPU core</p>	<p>Infineon AURIX 32-bit superscalar CPUs with 3 cores with 300 MHz HSM (Hardware Security Module) Up to 8 MB of Program Flash Up to 768 kB Data Flash usable for EEPROM emulation Up to 728 kB RAM</p> <hr/> <p>2 x SJA1105T - 5 port Ethernet Switch Chip</p>
<p>Power supply</p>	<p>12 Vdc</p>
<p>Interfaces</p>	<p>6 x 100BASE-T1 BroadR-Reach® 100 Mbit/full-duplex 1 x 100BASE-TX Ethernet for diagnostics and flashing</p>
<p>Ethernet standards compliance</p>	<p>IEEE 802.1D Layer 2 switching IEEE 802.1Q VLAN support</p>

Block diagram



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