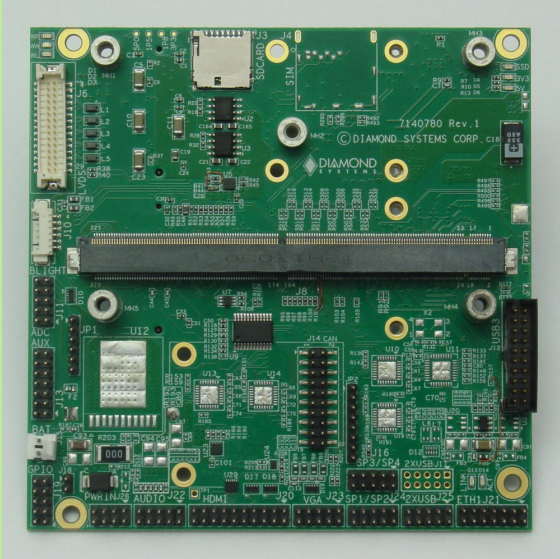


EAGLET ARM Baseboard



Small Form Factor Baseboard for Toradex Apalis ARM Computer-on-Modules



- ◆ Choice of Toradex ARM Computer-on-modules:
 - NVIDIA Tegra T30 1.4GHz quad core Cortex A9
 - i.MX6 NXP/Freescale 1GHz or 800MHz Cortex A9
 - NVIDIA Tegra TK1 up to 2.2GHz Cortex A15 (coming soon!)
- ◆ Standard baseboard I/O features:
 - 4 USB 2.0 ports
 - 2 RS-232/422/485 serial ports & 2 RS-232 ports
 - 1 Gigabit Ethernet port
 - VGA, HDMI and dual channel LVDS display options
 - HD audio interface with MIC in and Line out
 - 4 12-bit A/D; 4 PWM; I2C; SPI; 8 GPIO lines
 - PCIe MiniCard and mSATA sockets
- ◆ Small form factor: 4.0" x 4.0" (102mm x 102mm)
- ◆ -40°C to +85°C (-40°F to +185°F) operating temperature

Create a Complete ARM-Based System

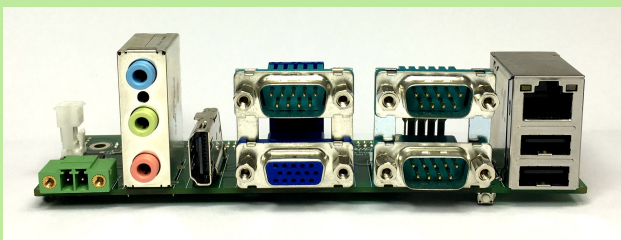
Eaglet provides a long life, scalable platform for ARM-based application development. Toradex's Apalis module family currently contains three members and all have long life commitments from their suppliers, ensuring long life availability of the complete product. Customers have great flexibility in selecting the price/performance characteristics of the installed COM along with multiple configurations including the number of cores, memory and flash size, and operating temperature.

Customizability

Most I/O features can be configured to meet any customer's specific requirements as well as cost and power consumption targets. This includes removal of unneeded features and I/O connectors plus additional ruggedization services.

Panel I/O Board

A panel I/O board is available with industry-standard I/O connectors to simplify system development. The board plugs onto the pin headers along the front edge of the Eagle baseboard, reducing cabling and making system assembly easier. See the block diagram on page 2 for a list of features available on the panel I/O board.



Selection of Toradex ARM COMs

Apalis iMX6	Apalis T30	Apalis TK1 (coming soon!)
Freescale i.MX6	NVIDIA Tegra 3	NVIDIA Tegra K1
ARM Cortex A9	ARM Cortex A9	ARM Cortex A15
Quad core Dual core	Quad Core	Quad core
1GHz / 800MHz	1.4GHz	Up to 2.2GHz
512MB to 2GB DDR3 RAM	1GB or 2GB DDR3 RAM	2GB DDR3 RAM
4GB eMMC flash	4GB/8GB eMMC flash	16GB eMMC flash
End of life 2025	End of life 2028	End of life 2025

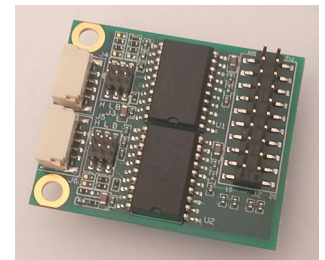
See www.toradex.com for more information.

Linux Board Support Package

The Eaglet Linux BSP is based on the Open Embedded Build Framework. The BSP is delivered on a 32GB micro-SD module and contains all drivers necessary for controlling all peripherals on Eaglet. Just plug the SD into Eaglet and the board is ready to run.

Optional Dual CAN

An optional daughterboard can be mounted on Eaglet to provide access to the 2 CAN 2.0 ports available on the Apalis module. The ports feature opto-isolation and jumper-configurable split bias termination.



EAGLET: Baseboard For Toradex Apalis ARM COMs



Specifications

Supported COMs	Apalis iMX6 800MHz or 1GHz ARM Cortex A9 Apalis T30 1.4GHz ARM Cortex A9		
Networking	1 Gigabit Ethernet port		
Serial ports	2 RS-232/422/485 ports with software configuration & 2 RS-232 ports		
USB ports	4 USB 2.0 ports		
Video output	i.MX6	T30	
	VGA	1280x1024	1920x1200
	LVDS	1920x1200 dual ch	2048x1536 dual ch
	HDMI	HDMI1.4a up to 1080p/60Hz	
Mass storage	1 micro SD & 1 mSATA socket		
Audio	HD audio		
Data acquisition	4 12-bit A/D, 4 PWM		
	8 GPIO, 3.3V logic levels		
Connectivity	1 I2C & 1 SPI		
I/O expansion	PCIe MiniCard socket (with SIM socket)		
Input voltage	+5VDC +/-5%		
Power consumption	(not including installed ARM module)		
Operating temp	-40°C to +85°C (-40°F to +185°F)		
Shock & Vibration	MIL-STD-202G compatible		
Dimensions	4.00" x 4.00" (102mm x 102mm)		
RoHS	Compliant		

Ordering Information

EGLT-LC-BB	Eaglet Baseboard for Toradex Apalis
DK-EGLT-MX6Q2G-LNX	Eaglet Development Kit with i.MX6 / Linux
DK-EGLT-T30Q1G-LNX	Eaglet Development Kit with T30 / Linux
SDK-EGL-MX6-LNX	Linux BSP for Eaglet / i.MX6 on Micro-SD
SDK-EGL-T30-LNX	Linux BSP for Eaglet / T30 on Micro-SD
PNL-EGL-01	Eagle/Eaglet Panel I/O Board
CK-EGLT-01	Eaglet cable kit, no HDMI cable
CK-EGLT-02	Eaglet cable kit, with HDMI cable

Complete Solutions Available

Eaglet is also available as a complete SBC with Apalis module and heat sink pre-installed. The SBC is also available in an enclosure for a deployment-ready solution with table-top, bulkhead, and DIN rail mount options.

