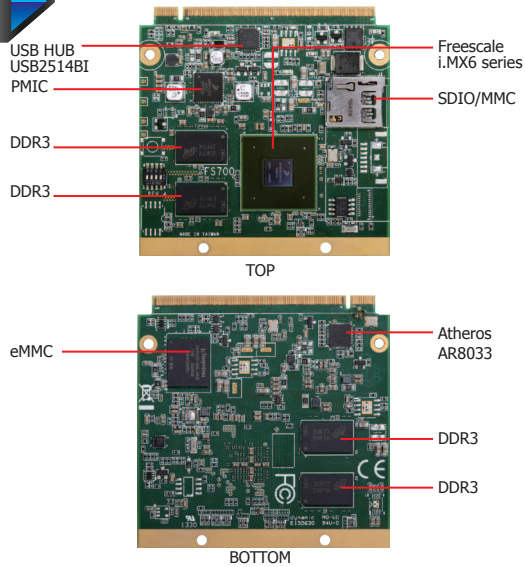


FS700 Series

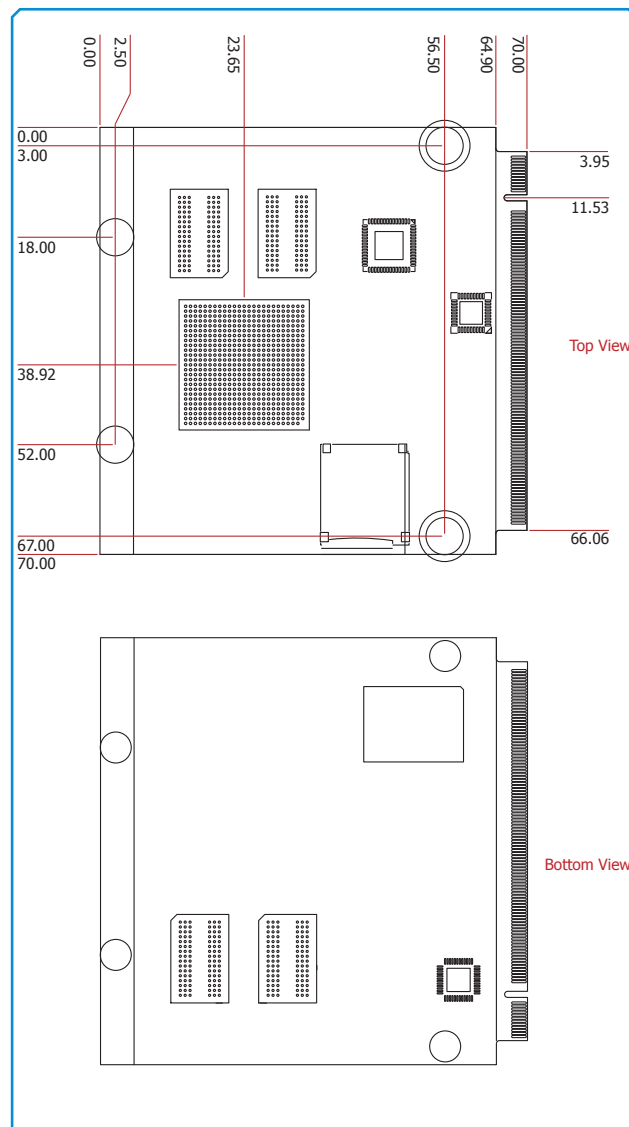


Features

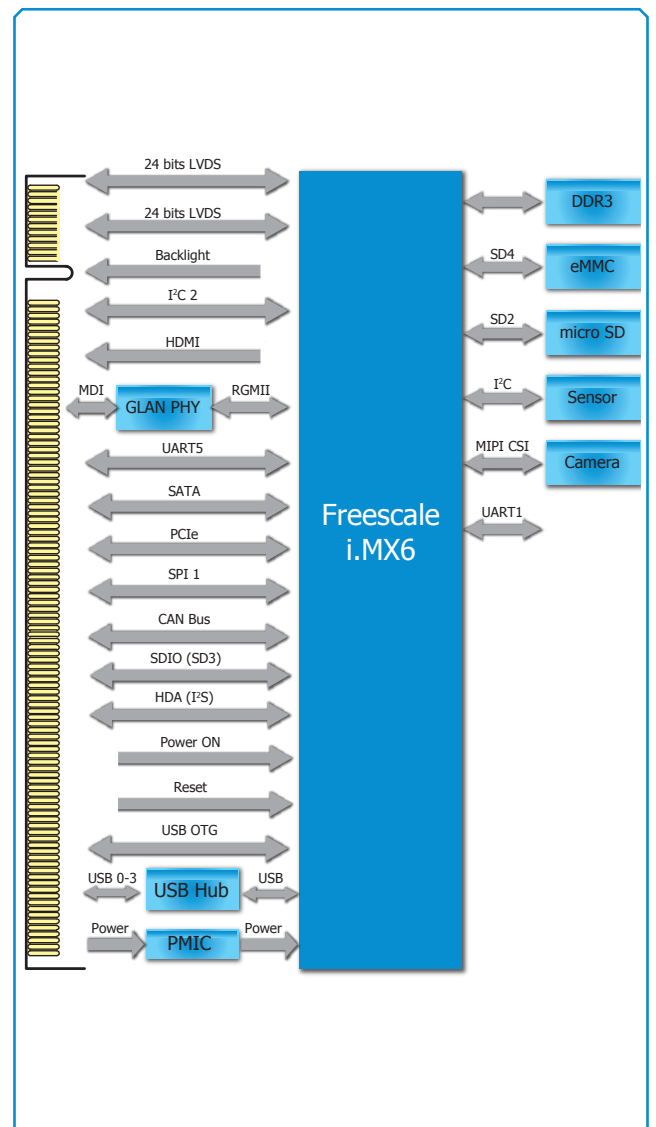
MEMORY	1GB/2GB DDR3 onboard
STORAGE	4GB/8GB/16GB eMMC onboard
DISPLAY OUTPUTS	1 HDMI, 2 LVDS
EXPANSION	1 PCIe x1 1 I ² C, 1 CAN-bus 4 USB 2.0, 1 USB OTG 1 SATA 2.0 1 SDIO/MMC 1 RS232
LAN	1 10/100Mbps LAN (FS700E) 1 Gigabit LAN (FS700)
DIMENSIONS	Qseven R1.2 70mm x 70mm (2.76" x 2.76")



Mechanical Drawing



Block Diagram



FS700 Series

► Specifications

PROCESSOR

- Freescale i.MX 6 series processors
 - i.MX6Q: i.MX 6Quad at 1.0GHz, Four Cortex-A9 cores
 - i.MX6D: i.MX 6Dual at 1.0GHz, Two Cortex-A9 cores
 - i.MX6L: i.MX 6DualLite at 1.0GHz, Two Cortex-A9 cores
 - i.MX6S: i.MX 6Solo at 1.0GHz, One Cortex-A9 core

SYSTEM MEMORY

- DDR3 onboard
- Onboard memory: 1GB/2GB

STORAGE

- Supports 4GB, 8GB and 16GB eMMC onboard

ONBOARD GRAPHICS FEATURES

- Supports HDMI and LVDS interfaces
- HDMI: resolution up to 1920x1200 @ 60Hz
- LVDS: 18/24-bit, single channel, resolution up to 2560x1600 @ 60Hz
- Supports 3D and 2D graphics
- Multi-stream-capable HD video engine delivering 1080p60 decode, 1080p30 encode and 3D video playback

ONBOARD AUDIO FEATURES

- Supports I²S interface

ONBOARD LAN FEATURES

- One Atheros AR8033 Ethernet PHY
- Supports 10Mbps, 100Mbps data transmission (FS700E)
- Supports 10Mbps, 100Mbps and 1Gbps data transmission (FS700)

SERIAL ATA (SATA) INTERFACE

- Supports 1 SATA 2.0 interface (Quad and Dual processors only)
- SATA speed up to 3Gb/s (SATA 2.0)

SDIO/MMC

- Supports 1 SDIO/MMC
- Supports SDA Standard Ver 1.0, SD memory card specification Ver 2.0, SDIO card specification Ver 1.0, MMC System specification Ver 4.1
- Conforms to Secure Digital Host Controller (SDHC) speed class 6

EXPANSION INTERFACES

- Supports 4 USB 2.0 interfaces
- Supports 1 USB OTG (Type B) interface
- Supports 1 PCIe x1 interface
- Supports 1 RS232 serial interface
- Supports 1 I²C interface
- Supports CAN-bus (Controller-Area Network) interface

WATCHDOG TIMER

- Software programmable from 1 to 255 seconds

POWER

- Input: 5V standby, 5V

POWER CONSUMPTION

- TBD

OS SUPPORT

- LTIB Linux 3.0.35
- Android
 - Quad, Dual and DualLite processors only
 - 8GB eMMC required

TEMPERATURE

- Operating
 - Quad: -20°C to 70°C (TBD)
 - Dual, DualLite, Solo: 0°C to 60°C
- Storage: -30°C to 80°C

HUMIDITY

- 5% to 90%

PCB

- Dimensions
 - Qseven form factor
 - 70mm (2.76") x 70mm (2.76")
- Compliance
 - Qseven specification revision 1.2

► Ordering Information

Model Name	Part Number	Description
FS700E-M60-6Q1041	777-FS70E1-EF0G	i.MX 6Quad, onboard DDR3 1GB, eMMC 4GB, RoHS, -20°C to 70°C (TBD)
FS700E-M60-6D1041	777-FS70E1-DF0G	i.MX 6Dual, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C
FS700E-M60-6L1041	777-FS70E1-CF0G	i.MX 6DualLite, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C
FS700E-M60-6S1041	777-FS70E1-500G	i.MX 6Solo, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C

The following models will be available upon request. Please contact your sales representative for more information.

Model Name	Part Number	Description
FS700-M60-6Q1041	777-FS7001-EF0G	i.MX 6Quad, onboard DDR3 1GB, eMMC 4GB, RoHS, -20°C to 70°C (TBD)
FS700-M60-6D1041	777-FS7001-DF0G	i.MX 6Dual, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C
FS700-M60-6L1041	777-FS7001-CF0G	i.MX 6DualLite, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C
FS700-M60-6S1041	777-FS7001-500G	i.MX 6Solo, onboard DDR3 1GB, eMMC 4GB, RoHS, 0°C~60°C

► Packing List

- 1 FS700E/FS700-M60 board
- 1 QR (Quick Reference)
- 1 DVD

► Optional Items

- Q7A-551 carrier board kit
- 1 Bracket