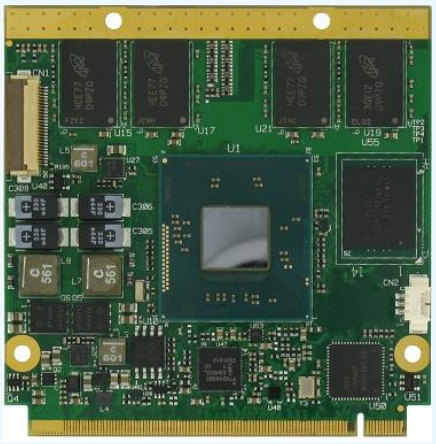
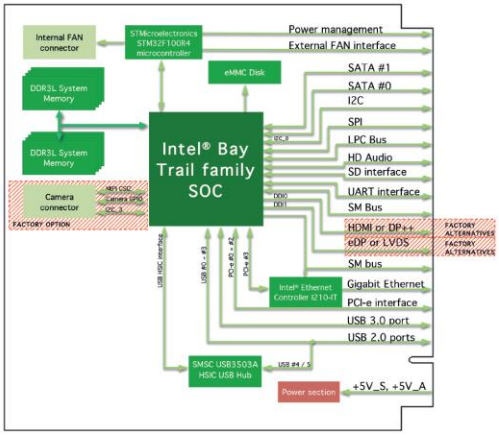


Product Name: Q7-A36

Highlights	• eMMC drive on-board • Available in Industrial temperature range • Low power solution • Camera Interface • Integrated 64-bit memory controller
Part Number	Q7-A36
Main Fields of Application	• HMI • Industrial Automation and Control • Portable Devices • In-vehicle Infotainment Systems
Processor	Intel® Atom™ E3845, Quad Core @1.91GHz, 2MB Cache, 10W TDP Intel® Atom™ E3827, Dual Core @1.75GHz, 1MB Cache, 8W TDP Intel® Atom™ E3826, Dual Core @1.46GHz, 1MB Cache, 7W TDP Intel® Atom™ E3825, Dual Core @1.33GHz, 1MB Cache, 6W TDP Intel® Atom™ E3815, Single Core @1.46GHz, 512KB Cache, 5W TDP Intel® Atom™ E3805, Dual Core @ 1.33GHz, 1MB Cache, 3W TDP Intel® Celeron® J1900, Quad Core @2.0GHz, 2MB Cache, 10W TDP Intel® Celeron® N2930, Quad Core @1.83GHz, 2MB Cache, 7.5W TDP Intel® Celeron® N2807, Dual Core @1.58GHz, 1MB Cache, 4.3W TDP
Max Cores	4
Memory	Soldered on-board DDR3L memory E3845, E3827, J1900, N2930: up to 8GB Dual-Channel DDR3L 1333MHz E3826: up to 8GB Dual-Channel DDR3L 1066MHz N2807: up to 4GB Single-Channel DDR3L 1333MHz E3825, E3815: up to 4GB Single-Channel DDR3L 1066MHz
Graphics	Integrated Intel® HD Graphics 4000 series controller (not for E3805) Dual independent display support HW decoding of H.264, MPEG2, MVC, VC1, VP8, MJPEG formats HW encoding of H.264, MPEG2 and MVC formats
Video Interface	HDMI or Multimode Display Port interface Embedded Display Port or 18 / 24 bit dual channel LVDS interface Optional Camera interface
Video Resolution	HDMI: Up to 1920x1080p@60Hz Display Port, eDP: Up to 2560x1600@60Hz Optional LVDS interface: Up to 1920x1200@60Hz



Mass Storage	Up to 2 x external SATA channels SD interface Optional SATA Flash Drive soldered on-board
Networking	Gigabit Ethernet interface
USB	1 x USB 3.0 Host port 6 x USB 2.0 Host ports (one shared with USB 3.0 interface)
PCI-e	3 x PCI-e x1 lanes
Audio	HD Audio interface
Serial Ports	1 x Serial ports
Power Supply	+5VDC ⍰} 5%
Operating System	Microsoft® Windows 7 (32 / 64 bit) Microsoft® Windows 8.1 (32 / 64 bit) Microsoft® Windows 10 (32 / 64 bit) Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 (32 / 64 bit) Microsoft® Windows Embedded Standard 8 (32 / 64 bit) Microsoft® Windows Embedded Compact 7 Linux (32 / 64 bit) Yocto
Operating Temperature	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Dimensions	70 x 70 mm (2.76” x 2.76”)