

PRODUCT SELECTION GUIDE

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APPLICATIONS MU9C: Routing Co-Processor - 32-bit Interface, 64-bits Wide, Dual Port

- PON
- VOIP and Digital Video Streaming
- High-performance multi-layer switches
- Supports up to 28.5 MPPS IPv4
- Suitable for lookups at Layers 2 through 4

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
MU9C4K64	256Kb	4K x 64	3.3V	50, 70, 90	70, 90	100-LQFP
MU9C8K64	512Kb	8K x 64	3.3V	35, 40, 50, 70, 90	50, 70, 90	100-LQFP

MUAA: Routing Co-Processor - 32-bit Interface, 80-bits Wide, Triple Port

- PON
- ATM Testers
- High-performance multi-layer switches
- 48-Port 100Mb or 4-Port Gb Ethernet
- ATM LAN Emulation (LANE)
- Layer 4 flow recognition

Device P/N	Density	Organization	Supply	Clock Speed (ns)		Package
				Commercial	Industrial	
MUAA2K80	160Kb	2K x 80	3.3V	20, 30	20, 30	160-PQFP
MUAA8K80	640Kb	8K x 80	3.3V	20		160-PQFP

LANCAM® : High Speed 16-bit Interface, 64-bits Wide

- Barcode scanners
- DSLAM
- High-performance desktop, workgroup, edge and backbone switches and routers
- Remote access servers
- Suitable for lookups at Layers 2 through 4
- Wireless bridges and access points
- Compression / Decompression algorithms

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
LANCAM B						
MU9C1480B	64Kb	1K x 64	3.3V	70, 90	90	44-LQFP
MU9C2480B	128Kb	2K x 64	3.3V	70, 90	70, 90	64-LQFP
MU9C4480B	256Kb	4K x 64	3.3V	70, 90	70, 90	64-LQFP
MU9C8480B	512Kb	8K x 64	3.3V	50, 70, 90	70, 90	64-LQFP
LANCAM 1st*						
MU9C1481L	64Kb	1K x 64	3.3V	100	100	44-PLCC
MU9C2481L	128Kb	2K x 64	3.3V	100	100	44-PLCC
MU9C4481L	256Kb	4K x 64	3.3V	100	100	44-PLCC
MU9C8481L	512Kb	8K x 64	3.3V	100	100	44-PLCC
LANCAM A/L Series*						
MU9C3480A	16Kb	256 x 64	5.0V	70, 90	70, 90	44-PLCC
MU9C3480L	16Kb	256 x 64	3.3V	70, 90	90	44-PLCC
MU9C5480A	32Kb	512 x 64	5.0V	70, 90	70, 90	44-PLCC
MU9C5480L	32Kb	512 x 64	3.3V	70, 90	90	44-PLCC
MU9C1480A	64Kb	1K x 64	5.0V	50, 70, 90	70, 90	44-PLCC
MU9C1480L	64Kb	1K x 64	3.3V	90	90	44-PLCC
MU9C2480A	128Kb	2K x 64	5.0V	50, 70, 90	70, 90	44-PLCC
MU9C2480L	128Kb	2K x 64	3.3V	70, 90	70, 90	44-PLCC
MU9C4480A	256Kb	4K x 64	5.0V	70, 90	70, 90	44-PLCC
MU9C4480L	256Kb	4K x 64	3.3V	70, 90	70, 90	44-PLCC

*Products appropriate for legacy designs.
Parts listed to indicate availability.

Ethernet Packet Filters

- Wi-Fi
- Interfaces MUSIC LANCAMs to industry-standard Ethernet MII
- Desktop, workgroup bridges and switches
- Wireless LAN applications
- Unicast, Broadcast, Multicast packet filtering

Device P/N	Description	Supply	Package
MU9C8338	10/100 Mb Ethernet Filter	3.3V	144-LQFP
MU9C8338A	10/100 Mb Ethernet Filter	3.3V	144-LQFP
MU9C8358L	Quad 10/100Mb Ethernet Filter	3.3V	208-LQFP

ATMCAM®: 32-bit Interface, 32-bits Wide, Dual Port

- ATM switches
- VPI and VPI/VCI translation
- IPV4 routers and switches

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
MU9C4320L	128Kb	4k x 32	3.3V	70, 90	70, 90	100-LQFP

APPLICATIONS

List-XL CAM: 16-bit Interface, 64-bits Wide

- E-Pass
- High-performance desktop, workgroup bridges and switches and routers
- Remote access servers
- SOHO and DSL

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
MU9C3640L	16Kb	256 x 64	3.3V	70, 90	90	32-LQFP
MU9C5640L	32Kb	512 x 64	3.3V	70, 90	90	32-LQFP

Wideport LANCAM® : 32-bit Interface, 64-bits Wide

- 32-bit bus doubles available I/O bandwidth
- Suitable for LAN-to-ATM, VLANs, IPv4 routers
- High speed MAC address processing

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
MU9C1485A	64Kb	1K x 64	5.0V	50, 70, 90	70, 90	80-LQFP
MU9C1485L	64Kb	1K x 64	3.3V	70, 90	70, 90	80-LQFP
MU9C2485A	128Kb	2K x 64	5.0V	50, 70, 90	70, 90	80-LQFP
MU9C2485L	128Kb	2K x 64	3.3V	90	90	80-LQFP
MU9C4485A	256Kb	4K x 64	5.0V	50, 70, 90	70, 90	80-LQFP
MU9C4485L	256Kb	4K x 64	3.3V	50, 70, 90	70, 90	80-LQFP

LANCAM® MP: 32-bit Interface, 128-bits Wide

- Multiprotocol translation
- VLAN bridges and switches
- Hardware firewalls
- LAN/ATM edge switches and routers

Device P/N	Density	Organization	Supply	Speed Grades (ns)		Package
				Commercial	Industrial	
MU9C1965A	128Kb	1K x 128	5.0V	70, 90	70, 90	80-LQFP
MU9C1965L	128Kb	1K x 128	3.3V	90	90	80-LQFP

Device Models and Software Support

Product Family	Verilog/VHDL	IBIS	BSDL	Other
MU9C RCP	✓	✓	✓	C Header File
MUAA RCP	✓		✓	
LANCAM B	✓	✓		C Header File
List-XL	✓	✓		C Header File
LANCAM MP	✓	✓		C Header File
ATMCAM	✓	✓	✓	C Header File
Ethernet Packet Filters			✓	C Initialization Routine, Evaluation Board

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