



# AMD Embedded Processor-based Products

## Mini-ITX & 3.5"

Updated: July 3, 2015

Form Factor	Mini-ITX			Mini-ITX		3.5"	
Application	Gaming			Industrial Automation, Infotainment		Infotainment	Infotainment
Chipset	A77E			N/A		A70M	A50M
Platform	<b>R-Series</b>			<b>G-Series SoC</b>		<b>R-Series</b>	<b>G-Series</b>
Model	<b>BE170</b>	<b>BE171</b>	<b>BE173</b>	<b>KB160</b>	<b>KB161</b>	<b>CM100-C</b>	<b>OT951-B</b>
	same PCB			same PCB			
Processor	2nd Gen AMD Embedded R-Series			AMD Embedded G-Series SoC		AMD Embedded R-Series	AMD T56N/T40N
Memory	2 DDR3/DDR3L SODIMM up to 16GB			2 DDR3/DDR3L SODIMM up to 8GB		2 DDR3 SODIMM up to 16GB	1 DDR3 SODIMM up to 8GB
Display	DP			VGA, LVDS, DP		HDMI, DVI-I (DVI-D signal)	HDMI, VGA, LVDS
LAN	2			2		2	2
Expansion	1 PCIe x16 1 Mini PCIe (USB, PCIe, mSATA)			1 PCIe x4 1 Mini PCIe (USB, PCIe, mSATA) 1 DFI Proprietary Extension Bus for PCIe/PCI expansion 1 DFI EXC Interface for I/O expansion		1 PCIe x16 2 DFI Proprietary Extension Bus or PCIe/PCI expansion 1 Mini PCIe (USB, PCIe, mSATA)	1 Mini PCIe (USB, PCIe, mSATA) 1 Connector for daughterboard expansion
SATA	4 SATA 3.0			2 SATA 3.0		4 SATA 3.0	1 SATA 3.0, 1 CF
USB	4 USB 3.0 4 USB 2.0 1 vertical USB 2.0			2 USB 3.0 4 USB 2.0 1 vertical USB 2.0 (optional)		4 USB 3.0 6 USB 2.0	4 USB 2.0
COM	4			4		6	2
Parallel	N/A			N/A		N/A	N/A
LPC*	N/A			N/A		N/A	N/A
DIO	8-bit			8-bit		8-bit	8-bit
SSD	N/A			N/A		N/A	N/A
IDE	N/A			N/A		N/A	N/A
Audio	7.1-channel			N/A		HD Audio	HD Audio
TPM	optional			optional		optional	optional
Power	ATX	12V DC-in / 4-pin power (optional)	19~24V DC-in / 4-pin power (optional)	ATX	12V DC-in / 4-pin power (optional)	ATX	12V DC-in / 4-pin power (optional)
Compliance	N/A			N/A		N/A	N/A
Carrier Board	N/A			N/A		N/A	N/A
DVT Sample	Apr-2015			Released		Released	Released
MVT Sample	May-2015						

\*LPC connector supports the additional COM/Parallel ports

All product specifications are subject to change without notice.



# AMD Embedded Processor-based Products

## COM Express

Form Factor	COM Express Compact		COM Express Basic	
Application	Industrial Automation, Infotainment	Infotainment	Industrial Automation, Infotainment, Military	Industrial Automation, Infotainment
Chipset	N/A	A55E	A70M	A70N
Platform	<b>G-Series SoC</b>	<b>G-Series</b>	<b>R-Series</b>	
Model	<b>KB968</b>	<b>OT905-B</b>	<b>CM960-B</b>	<b>CM901-B</b>
Processor	AMD Embedded G-Series SoC	AMD T56N/T40N	AMD Embedded R-Series (BGA)	AMD Embedded R-Series (PGA)
Memory	1 DDR3 SODIMM up to 8GB	1 DDR3 SODIMM up to 8GB	2 DDR3 SODIMM up to 16GB	
Display	VGA, DP/LVDS, DP	VGA, LVDS	DP, DP/LVDS, DP/VGA	
LAN	1	1	1	
Expansion	1 PCIe x4 4 PCIe x1 1 LPC, 1 SMBus, 1 I <sup>2</sup> C, 2 serial	6 PCIe x1 4 PCI 1 LPC, 1 SMBus	1 PCIe x8 7 PCIe x1 1 LPC, 1 SMBus, 1 I <sup>2</sup> C, 2 serial	1 PCIe x16 7 PCIe x1 1 LPC, 1 SMBus, 1 I <sup>2</sup> C, 2 serial
SATA	2 SATA 3.0	4 SATA 3.0	4 SATA 3.0	
USB	2 USB 3.0 6 USB 2.0	8 USB 2.0	4 USB 3.0 4 USB 2.0	
COM	N/A	N/A	N/A	
Parallel	N/A	N/A	N/A	
LPC*	N/A	N/A	N/A	
DIO	8-bit	8-bit	8-bit	
SSD	optional	N/A	optional	
IDE	N/A	1	N/A	
Audio	HD Audio	HD Audio	HD Audio	
TPM	optional	optional	optional	
Power	N/A	N/A	N/A	
Compliance	Compact R2.1 Type 6	Compact R2.0 Type 2	Basic R2.1 Type 6	
Carrier Board	COM331-B	COM330-B	COM331-B	
DVT Sample	Released	Released	Released	Released
MVT Sample				

\*LPC connector supports the additional COM/Parallel ports



# AMD Embedded Processor-based Products

## Carrier Board

Form Factor	microATX	microATX
Application	Carrier Board	
Model	<b>COM331-B</b>	<b>COM330-B</b>
Display	DP, VGA, LVDS	VGA, LVDS
LAN	1	1
Expansion	1 PCIe x16 1 PCIe x4 2 PCIe x1 1 Mini PCIe	1 PCIe x16 1 PCIe x4 2 PCI 1 Mini PCIe
SATA	2 SATA 3.0 2 SATA 2.0 1 SDIO	2 SATA 3.0 2 SATA 2.0 1 CF
USB	4 USB 3.0 4 USB 2.0	8 USB 2.0
COM	2	4
Parallel	N/A	N/A
LPC*	N/A	N/A
DIO	8-bit	8-bit
SSD	N/A	N/A
IDE	N/A	N/A
Audio	HD Audio	HD Audio
Power	ATX	ATX
Compliance	COM Express R2.0, Type 6	COM Express R2.0, Type 2
Applied Module	Compact, Basic	Compact, Basic
Applied Model	KB968 CM960-B CM901-B	OT905-B

\*LPC connector supports the additional COM/Parallel ports