

AR6MXCS- Series

Quick Start Guide

Ver 0.1

This Quick Start Guide is for BCM AR6MXCS ARM motherboards based on Freescale i.MX6 Cortex A9 platform.



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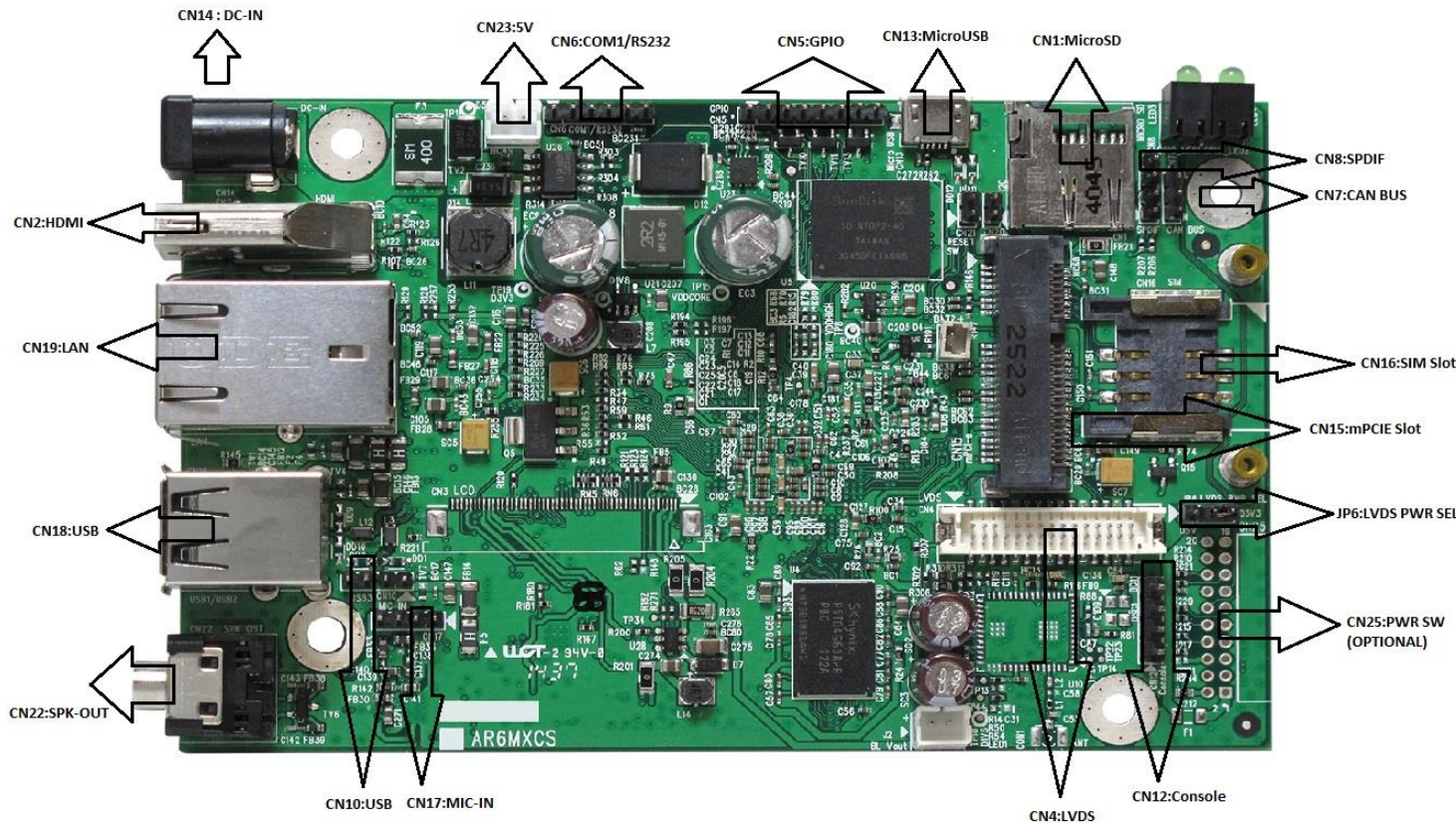
1. Overview

The AR6MXCS is a simplified version of our popular AR6MX platform. The AR6MXCS features a Single-Core i.MX6 processor from Freescale. The hardware specifications for the AR6MXCS board are the following:

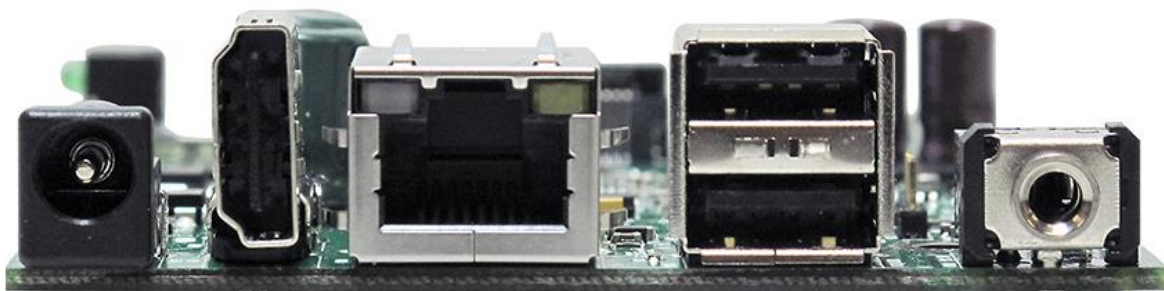
- Single-Core ARM® Cortex A9 processor at 1GHz
- 512MB of 32-bit DDR3 Memory @400Mhz
- LVDS Outputs for 1080p displays
- HDMI 1.4a
- 4GB eMMC (optional)
- On-Board mPCIE connector with both PCIe and USB interfaces
- RS-232 serial port header
- microSD 3.0/SDXC card slot
- Analog (headphone/mic) and Digital (HDMI) audio
- SPDIF header
- 10/100/1000 Ethernet
- 3x High speed USB ports (2xHost, 1xOTG)
- CAN port header
- I2C
- Real-Time Clock with battery backup
- SIM Card Holder
- General Purpose I/O for Device Control
- 5V DC-In power input

2. Mainboard illustration: Locations of IO ports & Jumper settings definition

Board Top View :

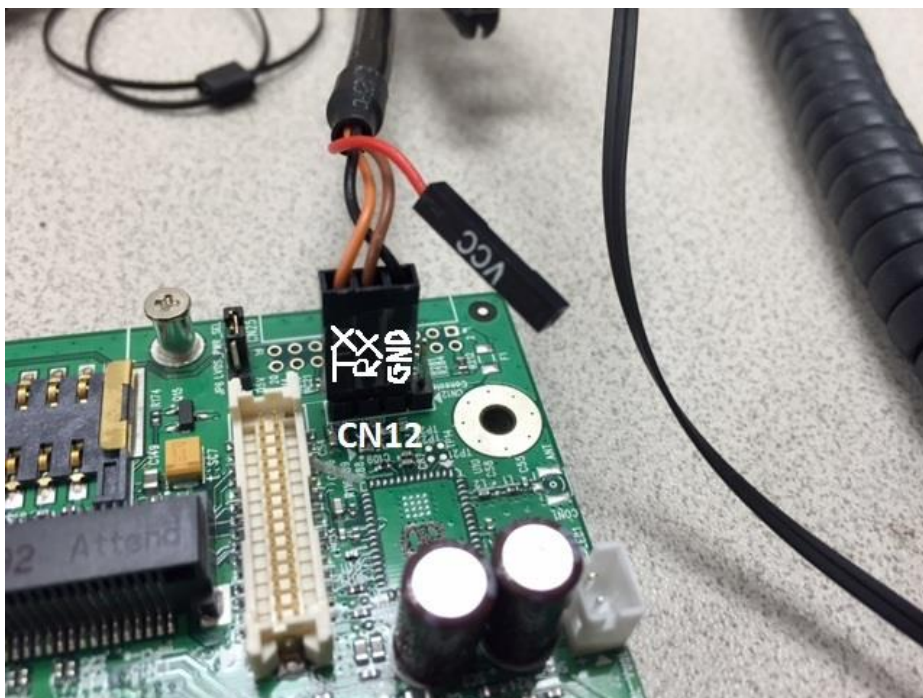
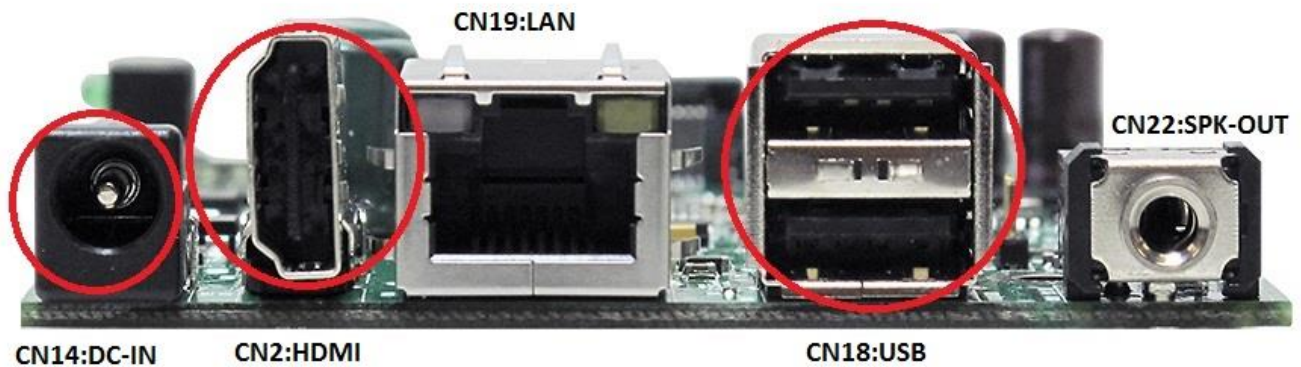


Board Side View :


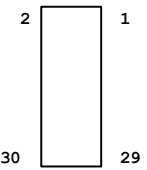







3. Getting Started

- 1.1 Connect a HDMI monitor to CN2 (HDMI).
- 1.2 Connect a USB mouse/keyboard either to the rear I/O USB connectors (CN18), or through the onboard header CN10 (USB cable not included)
- 1.3 Connect the 5V power adapter to CN14
- 1.4 Plug in the power adapter to an outlet and the board will boot up
- 1.5 Connect TTL Console to CN12.
(PIN1 – Empty ; PIN2 – GND ; PIN3 – RX ; PIN4 - TX)



4. Jumper Settings and Pin Definition

1.	JP6		2.	CN1: Micro SD Card Socket																																																			
		Connector type : HDR 1X3 2.0mm <table border="1"> <thead> <tr> <th>Pin</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D5V</td> </tr> <tr> <td>2</td> <td>L0_PWR</td> </tr> <tr> <td>3</td> <td>D3V3</td> </tr> </tbody> </table> Default <table border="1"> <thead> <tr> <th>Jumper selector</th> <th>LVDS0 PWR SEL</th> </tr> </thead> <tbody> <tr> <td>1 – 2</td> <td>5V</td> </tr> <tr> <td>2 – 3</td> <td>3.3V</td> </tr> </tbody> </table>	Pin	Definition	1	D5V	2	L0_PWR	3	D3V3	Jumper selector	LVDS0 PWR SEL	1 – 2	5V	2 – 3	3.3V		<table border="1"> <thead> <tr> <th>Pin</th> <th>Definition</th> <th>Pin</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DATA2</td> <td>7</td> <td>DAT0</td> </tr> <tr> <td>2</td> <td>CD/DATA3</td> <td>8</td> <td>DAT1</td> </tr> <tr> <td>3</td> <td>CMD</td> <td>9</td> <td>S</td> </tr> <tr> <td>4</td> <td>VDD</td> <td>10</td> <td>GND</td> </tr> <tr> <td>5</td> <td>CLK</td> <td>11</td> <td>S</td> </tr> <tr> <td>6</td> <td>VSS</td> <td>12</td> <td>GND</td> </tr> </tbody> </table>	Pin	Definition	Pin	Definition	1	DATA2	7	DAT0	2	CD/DATA3	8	DAT1	3	CMD	9	S	4	VDD	10	GND	5	CLK	11	S	6	VSS	12	GND									
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		6	LVD_0_CLK_P	16	GND	26	LVDS0_TX0_N	
		7	LBL0_PWM	17	LV_S0_TH_SCL	27	GND	
		8	LVDS0_CLK_N	18	LVDS0_TX1_P	28	GND	
		9	GND	19	LVDS0_TH_SDA	29	LCD0_PWR	
		10	GND	20	LVDS0_TX1_N	30	LCD0_PWR	
5.	CN5 : GPIO				6.	CN6 : COM-1 RS232		
		Connector type : HDR 1x8 2.0					Connector type : 1x6 2.00mm DIP	
		Pin	Definition			Pin	Definition	
		1	GPIO1			1	SOUT	
		2	GPIO2			2	RTS	
		3	GPIO3			3	CTS	
		4	GPIO4			4	SIN	
		5	GPIO5			5	GND	
		6	GPIO6			6	D5V	
		7	GPIO7					
		8	GPIO8					
7.	CN7 : CAN BUS				8.	CN8 : SPDIF		
		Connector type : HDR 1x3 2.0						Connector type : HDR 1x4 2.0
		Pin	Definition			Pin	Definition	
		1	CANH			1	D5V	
		2	GND			2	SPDIF_TX_O	
		3	CANL			3	SPDIF_RX_O	
						4	GND	
9.	CN10 : USB-3/USB-4				10.	CN13: Micro USB		
		Connector Type: Header 1x4 2.0					Connector type : 207A-ABAD-R	
		Pin	Definition			Pin	Definition	
		1	USBV3			2	D-	
		2	USB3P-			3	D+	
		3	USB3P+			4	ID	
		4	GND			5	GND	
11.	CN12 : Console				12.	CN17 : MIC IN		
		Connector type : Header 1X4 2.54						Connector type : 1x4 2.0mm
		Pin	Definition			Pin	Definition	
		1	D3V3			1	MIC_DET	
		2	GND			2	MICBIAS_J	
		3	CON_TXD			3	MIC_J	


		4	CON_RXD				4	AD_AGND																																																										
13.	CN18 : USB-1/USB-2'				14.	CN19 : LAN Conn'																																																												
		Connector type : USAF-8D-HNR0SPJ						Connector type : RTA-164AAK1A																																																										
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15.	CN16 : SIM Card Slot				16.	CN20 : I2C3																																																												
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2	GND										

20. CN15 : mPCI-e Port 1

		Connector type : PCI-e_MINI_CARD																																																																																																																																			
		<table border="1"> <thead> <tr> <th>Pin</th> <th>Definition</th> <th>Pin</th> <th>Definition</th> <th>Pin</th> <th>Definition</th> <th>Pin</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WAKE#</td> <td>16</td> <td>UIN_VPP</td> <td>31</td> <td>PET_N0</td> <td>46</td> <td>LED_WPAN#</td> </tr> <tr> <td>2</td> <td>+3.3V_1</td> <td>17</td> <td>UIN_GND</td> <td>32</td> <td>SMB_DATA</td> <td>47</td> <td>RSVD10</td> </tr> <tr> <td>3</td> <td>RSVD1</td> <td>18</td> <td>GND8</td> <td>33</td> <td>PET_P0</td> <td>48</td> <td>+1.5V_3</td> </tr> <tr> <td>4</td> <td>GND7</td> <td>19</td> <td>UIN_IN</td> <td>34</td> <td>GND10</td> <td>49</td> <td>RSVD11</td> </tr> <tr> <td>5</td> <td>RSVD2</td> <td>20</td> <td>RSVD18</td> <td>35</td> <td>GND6</td> <td>50</td> <td>GND12</td> </tr> <tr> <td>6</td> <td>+1.5V_1</td> <td>21</td> <td>GND3</td> <td>36</td> <td>USB_D-</td> <td>51</td> <td>RSVD12</td> </tr> <tr> <td>7</td> <td>CLKREQ#</td> <td>22</td> <td>PERST#</td> <td>37</td> <td>RSVD5</td> <td>52</td> <td>+3.3V_2</td> </tr> <tr> <td>8</td> <td>UIM_PWR</td> <td>23</td> <td>PER_N0</td> <td>38</td> <td>USB_D+</td> <td>53</td> <td>GNDM1</td> </tr> <tr> <td>9</td> <td>GND1</td> <td>24</td> <td>+3.3V_AUX</td> <td>39</td> <td>RSVD6</td> <td>54</td> <td>GNDM2</td> </tr> <tr> <td>10</td> <td>UIN_DATA</td> <td>25</td> <td>PER_P0</td> <td>40</td> <td>GND11</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>REFCLK-</td> <td>26</td> <td>GND9</td> <td>41</td> <td>RSVD7</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>UIN_CLK</td> <td>27</td> <td>GND4</td> <td>42</td> <td>LED_WWAN#</td> <td>57</td> <td>NUT</td> </tr> <tr> <td>13</td> <td>REFCLK+</td> <td>28</td> <td>+1.5V_2</td> <td>43</td> <td>RSVD8</td> <td>58</td> <td>NUT</td> </tr> <tr> <td>14</td> <td>UIN_RST</td> <td>29</td> <td>GND5</td> <td>44</td> <td>LED_WLAN#</td> <td>59</td> <td>GND</td> </tr> <tr> <td>15</td> <td>GND2</td> <td>30</td> <td>SMB_CLK</td> <td>45</td> <td>RSVD9</td> <td>60</td> <td>GND</td> </tr> </tbody> </table>	Pin	Definition	Pin	Definition	Pin	Definition	Pin	Definition	1	WAKE#	16	UIN_VPP	31	PET_N0	46	LED_WPAN#	2	+3.3V_1	17	UIN_GND	32	SMB_DATA	47	RSVD10	3	RSVD1	18	GND8	33	PET_P0	48	+1.5V_3	4	GND7	19	UIN_IN	34	GND10	49	RSVD11	5	RSVD2	20	RSVD18	35	GND6	50	GND12	6	+1.5V_1	21	GND3	36	USB_D-	51	RSVD12	7	CLKREQ#	22	PERST#	37	RSVD5	52	+3.3V_2	8	UIM_PWR	23	PER_N0	38	USB_D+	53	GNDM1	9	GND1	24	+3.3V_AUX	39	RSVD6	54	GNDM2	10	UIN_DATA	25	PER_P0	40	GND11			11	REFCLK-	26	GND9	41	RSVD7			12	UIN_CLK	27	GND4	42	LED_WWAN#	57	NUT	13	REFCLK+	28	+1.5V_2	43	RSVD8	58	NUT	14	UIN_RST	29	GND5	44	LED_WLAN#	59	GND	15	GND2	30	SMB_CLK	45	RSVD9	60	GND			
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21. CN25 : PWR SW ON (Optional)

		Connector type : HDR 2x10 2.0mm DIP																																																			
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3	E_N	8	PWR_EN	13	GPIO_LED1#	18	GND																																														
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