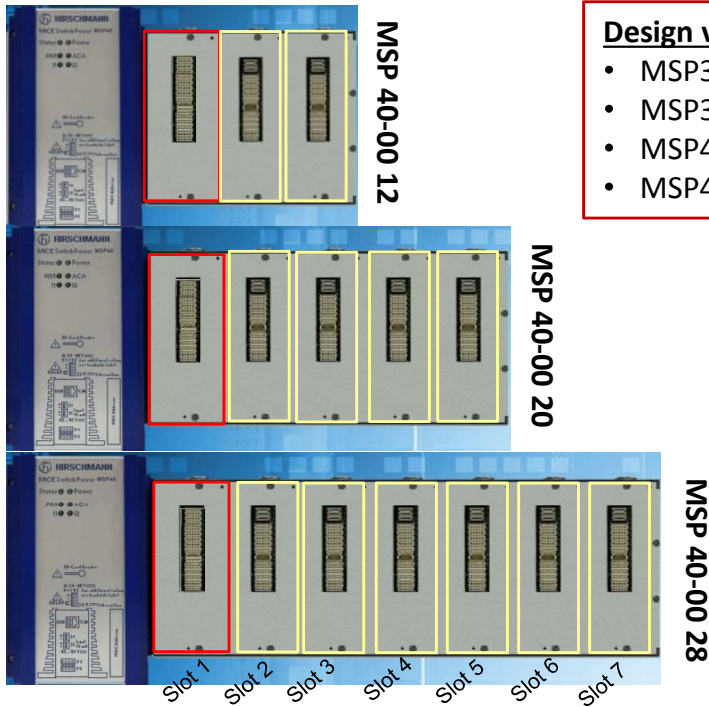
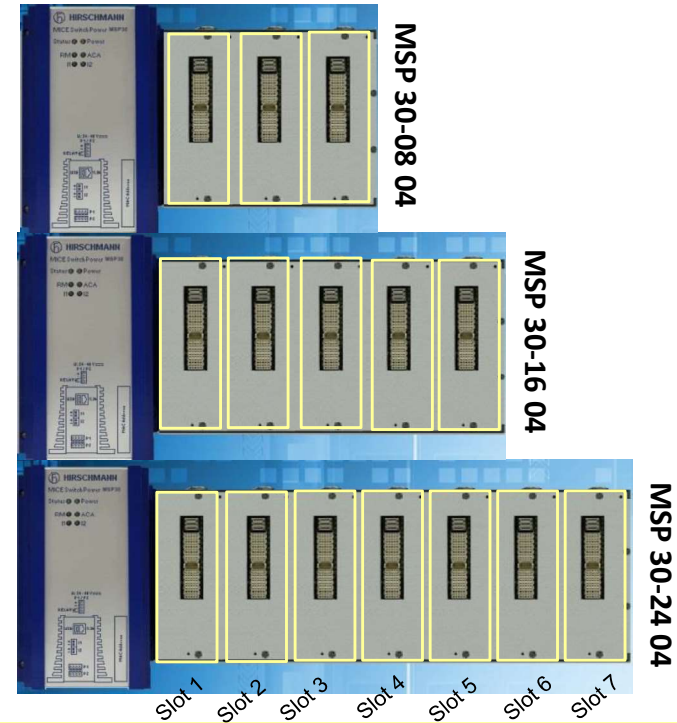


# MSP40 – MSP30 configuration concept



## Design variants

- MSP30 – GE/FE
- MSP32 – GE/FE with PoE+
- MSP40 – Full GE
- MSP42 – Full GE with PoE+



## Slot 1 on MSP40

- MSM50 – 1GE or 2.5 GE SFP module (4 ports)
- MSM60 – 1GE or 10 GE SFP module (2 ports)

## Slot 1 on MSP30

- MSM40 – 4x 10/100/1.000 Mbit/s; RJ45  
4x 100/1.000 Mbit/s; SFP slots
- MSM20/22 – 10/100 Mbit/s; TP; 100 Mbit/s; fiber

## Slot 2 – 7 on MSP40

- MSM40 – 4x 10/100/1.000 Mbit/s; RJ45 (T1); 100 Mbit/s; SFP slots; Combo ports (C1)
- MSM42/46 – 4x 10/100/1.000 Mbit/s; RJ45 PoE/PoE+ module
- MSM22 T5. – 4x 10/100 Mbit/s PoE/PoE+ module (M12 D-coded)
- MSM20 T5. – 4x 10/100 Mbit/s (M12 D-coded)
- MSM20... – max. 100 Mbit/s

## Slot 2 – 7 on MSP30

- MSM40 – 4x 10/100/1.000 Mbit/s; RJ45 (T1); 100 Mbit/s; SFP slots; Combo ports (C1)
- MSM42/46 – 4x 10/100 Mbit/s; RJ45 PoE/PoE+ module
- MSM22 T5. – 4x 10/100 Mbit/s PoE/PoE+ module (M12 D-coded)
- MSM20 T5. – 4x 10/100 Mbit/s (M12 D-coded)
- MSM20 – max. 100 Mbit/s



# MSP-FAMILY MICE Switch Media Moduls MSM

Productname/-code

<b>MSM</b>			-					-			<b>HH</b>	<b>9</b>	<b>E</b>	<b>xx.x</b>
1. Product	2. Data rate	3. HW Type		4. Port 1	5. Port 2	6. Port 3	7. Port 4		8. Temperature range	9. approvals	10. Customized version	11. HW configuration	12. SW-config.	13. SW-release

<b>1. Product</b>	<b>MSM</b>	MICE media modul												
<b>2. Data rate</b>	<ul style="list-style-type: none"> <li>2 - 10/100 Mbit/s ports</li> <li>4 - 10/100/1.000 Mbit/s ports</li> <li><b>5</b> - 1.000/2.500 Mbit/s ports (only for MSP40/42)</li> <li>6 - 1.000/ 10.000 Mbit/s ports (<b>MSM60 Q6Q6 9999</b> only for MSP40/42)</li> </ul>													
<b>3. HW Type</b>	<ul style="list-style-type: none"> <li><b>0</b> Standard suitable for PoE or PoE+ (only in MSM42 T1T1T1T1, supported in MSP32/42)</li> <li>2 suitable for I/O operation (only in MSM24 IOIOIOIO)</li> <li>4</li> <li>6 PoE+ capable with ext. power supply</li> </ul>													
<b>4. Port 1</b>	<table border="0"> <tr> <td><b>T1</b> Twisted Pair; RJ45 MSM4...</td> <td><b>S4</b> Singlemode; ST MSM20....</td> </tr> <tr> <td><b>T5</b> Twisted Pair; M12 MSM2...</td> <td><b>L2</b> Long Haul; SC MSM20....</td> </tr> <tr> <td><b>M2</b> Multimode; SC MSM20....</td> <td><b>G2</b> Long Haul+; SC MSM20....</td> </tr> <tr> <td><b>M4</b> Multimode; ST MSM20....</td> <td><b>C1</b> Combo port; SFP/RJ45 MSM40.... Dualspeed 1GB/100MB</td> </tr> <tr> <td><b>S2</b> Singlemode; SC MSM20....</td> <td><b>IO</b> Digital Input/Output (only in MSM24)</td> </tr> <tr> <td><b>Q6</b> SFP slot 1.000/2.500 Mbit/s (only in MSM50; Dualspeed 1GB/2.5GB) (only in MSM60; 10GB)</td> <td></td> </tr> </table>	<b>T1</b> Twisted Pair; RJ45 MSM4...	<b>S4</b> Singlemode; ST MSM20....	<b>T5</b> Twisted Pair; M12 MSM2...	<b>L2</b> Long Haul; SC MSM20....	<b>M2</b> Multimode; SC MSM20....	<b>G2</b> Long Haul+; SC MSM20....	<b>M4</b> Multimode; ST MSM20....	<b>C1</b> Combo port; SFP/RJ45 MSM40.... Dualspeed 1GB/100MB	<b>S2</b> Singlemode; SC MSM20....	<b>IO</b> Digital Input/Output (only in MSM24)	<b>Q6</b> SFP slot 1.000/2.500 Mbit/s (only in MSM50; Dualspeed 1GB/2.5GB) (only in MSM60; 10GB)		
<b>T1</b> Twisted Pair; RJ45 MSM4...	<b>S4</b> Singlemode; ST MSM20....													
<b>T5</b> Twisted Pair; M12 MSM2...	<b>L2</b> Long Haul; SC MSM20....													
<b>M2</b> Multimode; SC MSM20....	<b>G2</b> Long Haul+; SC MSM20....													
<b>M4</b> Multimode; ST MSM20....	<b>C1</b> Combo port; SFP/RJ45 MSM40.... Dualspeed 1GB/100MB													
<b>S2</b> Singlemode; SC MSM20....	<b>IO</b> Digital Input/Output (only in MSM24)													
<b>Q6</b> SFP slot 1.000/2.500 Mbit/s (only in MSM50; Dualspeed 1GB/2.5GB) (only in MSM60; 10GB)														
<b>5. Port 2</b>	See port type 1. Uplink													
<b>6. Port 3</b>	See port type 1. Uplink													
<b>7. Port 4</b>	See port type 1. Uplink													



<b>8. Temperature range</b>	<ul style="list-style-type: none"> <li><b>S</b> Standard 0°C ... +60°C</li> <li><b>T</b> Extended -40°C ... +70°C</li> <li><b>E</b> Extended -40°C ... +70°C including Corformal Coating</li> </ul>
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<b>9. approvals &amp; certifications</b>	<p>Z9 - CE; FCC; EN61131; (EN60950)          Y9 - ,Z9" + cUL508; (UL60950)#1          X9 - ,Z9" + cUL508; (UL60950)#1;ISA12.12          W9 - ,Z9" + ATEX Zone2          WY - ,Y9" + ATEX Zone 2          V9 - ,Z9" + IEC61850; IEEE1613 (Substation application)          VY - ,V9" + cUL508; (UL60950)#1 (Substation application)          VU - ,V9" + cUL508; (UL60950)# +GL; (ABS; BV; DNS; LR)#1 (Substation &amp; Navy appl)          VT - ,V9" + cUL508; (UL60950)#1 + EN50121 (Substation &amp; Rail application)          T9 - ,Z9" + EN50121 (Rail application)          TY - ,T9" + cUL508; (UL60950)#1 (Rail application)          U9 - ,Z9" + GL; (ABS; BV; DNS; LR)#1 (Navy application)          UY - ,U9" + cUL508; (UL60950)#1 (Navy application)          UW - ,U9" + cUL508; (UL60950)#1 + ATEX Zone 2 (Navy application)          UX - ,U9" + cUL508; (UL60950)#1 + ISA12.12 (Navy application)</p>
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<b>10. customized version</b>	<b>HH</b>	- Hirschmann Standard
<b>11. HW configuration</b>	<b>9</b>	- no FPGA
<b>12. SW configuration</b>	<b>E</b>	- Hirschmann; Standard Configuration
<b>13. SW version</b>	<b>xx.x</b>	- actual software-version

max. 62 W	MSM42-T1T1T1T1	PoE supply voltage via MSP	MSM46-T1T1T1T1	ext. terminal block for PoE supply voltage
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