NextLevel Internet Equipment Matrix Sheet

Drafted by NextLevel Internet Engineering Team

Version 3.0

Updated: 12/05/2024

Device Model	Dimension in W x D x H
Routers	
MikroTik 4011	9 x 4.75 x 1.2 in
MikroTik CCR2004	17.5 x 8.9 x 1.75 in

17.5 x 7.83 x 1.75

MikroTik CCR2116-12G-4S+

Switches	
Cisco 3750 & 3750X	17.5 x 14.9 x 1.75 in
TP-Link 8-port	6.25 x 4.0 x 1.0 in
TP-Link 5-port	3.9 × 3.9 × 1.0 in

Single Circuit Customer Configuration

Note: See box at the bottom of the page for SFP+ info for circuits \geq 2 Gbps

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
		Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	n/a	n/a
	0	Ŝ	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	n/a	n/a
		Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	n/a	n/a
		Fib	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	n/a	n/a
	ered	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	1 X TP-Link TL-SG1005P	n/a
	non-tethered	Cop	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RI01	1 X TP-Link TL-SG1005P	n/a
	-uou	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X TP-Link TL-SG1005P	n/a
	1-4	die die	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	1 X TP-Link TL-SG1005P	n/a
	D	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	1 X TP-Link TL-SG108PE	n/a
1	tethered	Сор	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	1 X TP-Link TL-SG108PE	n/a
(-)	-4 tel	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X TP-Link TL-SG108PE	n/a
	1	di.	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	1 X TP-Link TL-SG108PE	n/a
	red	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	2 X TP-Link TL-SG1005P	n/a
	non-tethered	Сор	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	2 X TP-Link TL-SG1005P	n/a
	-nor	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	2 X TP-Link TL-SG1005P	n/a
	8≥	Hi.	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	2 X TP-Link TL-SG1005P	n/a
	70	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	2 X TP-Link TL-SG108PE	n/a
	tethered	Сор	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	2 X TP-Link TL-SG108PE	n/a
	≤8 tet	ē	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	2 X TP-Link TL-SG108PE	n/a
	VI	Fiber	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	2 X TP-Link TL-SG108PE	n/a

≥ 5Gbps ≥ 5 Gbps MikroTik CCR-2116-12G-4S+

1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) or S+RJ10 (Copper)

Single Circuit Customer Configuration Cont.

Note: See box at the bottom of the page for SFP+ info for circuits ≥ 2 Gbps

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
	ъ	per	≤ 100Mbps	MikroTik RB4011iGS+RM	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
	here	Сорреі	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	1 X Cisco Catalyst 3750X-48P-S	n/a
	>8 tethe	Fiber	≤ 100Mbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X Cisco Catalyst 3750-48P-S	n/a
	^	Fik	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	1 X Cisco Catalyst 3750X-48P-S	n/a
	red	Q	≤ 100Mbps	MikroTik RB4011iGS+RM	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
-	on-tethe	Cop	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	2 X S-RJ01	1 X Cisco Catalyst 3750X-48P-S	n/a
· · ·		Fiber	≤ 100Mbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X Cisco Catalyst 3750-48P-S	n/a
	18<	Fik	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper) $	1 X Cisco Catalyst 3750X-48P-S	n/a
		per	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	n/a	1 X Adtran Gen 2 4242908L1
	SIP	Cop	≥ 1 Gbps	MikroTik CCR-2004-1G-125+2XS	3 X S-RJ01	n/a	1 X Adtran Gen 2 4242908L1
		er	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	n/a	1 X Adtran Gen 2 4242908L1
		Fiber	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper)$	n/a	1 X Adtran Gen 2 4242908L1

Dual Circuit Customer Configurations

Note: In a Dual Circuit Customer Configuration, ensure all SFP's are selected. You may need more than one to accommodate the hand-off.

Note: MikroTik RB4011iGS+RM can only support a single Fiber connection. If a dual fiber setup is required, must use MikroTik CCR-2004-1G-12S+2XS

Note: See box at the bottom of the page for SFP+ info for circuits ≥ 2 Gbps

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
		Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	n/a	n/a
	0	Ö	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	n/a	n/a
	ľ	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	n/a	n/a
		냺	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	{1G} 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / {2G-4G} 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	n/a	n/a
	ered	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	1 X TP-Link TL-SG1005P	n/a
	1-4 non-tethered	Cop	≥1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	1 X TP-Link TL-SG1005P	n/a
	nou	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X TP-Link TL-SG1005P	n/a
	1-4	證	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper) $	1 X TP-Link TL-SG1005P	n/a
	D	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	1 X TP-Link TL-SG108PE	n/a
2	1-4 tethered	Š	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	1 X TP-Link TL-SG108PE	n/a
.,	4 tei	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X TP-Link TL-SG108PE	n/a
	1	鼍	≥1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper) $	1 X TP-Link TL-SG108PE	n/a
	red	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	2 X TP-Link TL-SG1005P	n/a
	ethe	Ö	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	2 X TP-Link TL-SG1005P	n/a
	≤8 non-tethered	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	2 X TP-Link TL-SG1005P	n/a
	82	ij	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper) $	2 X TP-Link TL-SG1005P	n/a
	σ	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	2 X TP-Link TL-SG108PE	n/a
	≤8 tethered	Сор	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	2 X TP-Link TL-SG108PE	n/a
	8 tet	Fiber	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	2 X TP-Link TL-SG108PE	n/a
	VI	捐	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$ \{1G\}\ 1\ X\ S-31DLC20D\ (SM)\ or\ 1\ X\ S-85DLC05D\ (MM),\ and\ 2\ x\ S-RJ01\ /\ \{2G-4G\}\ 1\ X\ S+C61DLC10D\ (SM)\ or\ 1\ X\ S+85DLC03D\ (MM)\ and\ S+RJ10\ (Copper)$	2 X TP-Link TL-SG108PE	n/a

Dual Circuit Customer Configurations Cont.

Note: In a Dual Circuit Customer Configuration, ensure all SFP's are selected. You may need more than one to accommodate the hand-off.

Note: MikroTik RB4011iGS+RM can only support a single Fiber connection. If a dual fiber setup is required, must use MikroTik CCR-2004-1G-12S+2XS.

Note: See box at the bottom of the page for SFP+ info for circuits ≥ 2 Gbps

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
	70	pper	≤ 100Mbps	MikroTik RB4011iGS+RM	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
	here	Сор	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	1 X Cisco Catalyst 3750X-48P-S	n/a
	>8 teth	Fiber	≤ 100Mbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X Cisco Catalyst 3750-48P-S	n/a
	۸	Hib	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G\text{-}4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	1 X Cisco Catalyst 3750X-48P-S	n/a
	red	Copper	≤ 100Mbps	MikroTik RB4011iGS+RM	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
7	>8 non-tethe		> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	3 X S-RJ01	1 X Cisco Catalyst 3750X-48P-S	n/a
		Fiber	≤ 100Mbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	1 X Cisco Catalyst 3750-48P-S	n/a
		Hib	> 100 Mbps - 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G\text{-}4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	1 X Cisco Catalyst 3750X-48P-S	n/a
	S S	Copper	< 1 Gbps	MikroTik RB4011iGS+RM	n/a	n/a	1 X Adtran Gen 2 4242908L1
		Co	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	4 X S-RJ01	n/a	1 X Adtran Gen 2 4242908L1
		er	< 1 Gbps	MikroTik RB4011iGS+RM	1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM)	n/a	1 X Adtran Gen 2 4242908L1
		Fibe	≥ 1 Gbps	MikroTik CCR-2004-1G-12S+2XS	$\{1G\}$ 1 X S-31DLC20D (SM) or 1 X S-85DLC05D (MM), and 2 x S-RJ01 / $\{2G-4G\}$ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) and S+RJ10 (Copper)	n/a	1 X Adtran Gen 2 4242908L1

≥ 5Gbps ≥ 5 Gbps

5 Gbps MikroTik CCR-2116-12G-4S+ 1 X S+C61DLC10D (SM) or 1 X S+85DLC03D (MM) or S+RJ10 (Copper)

Voice Only Customer Configurations

Note: These are builds for sites that do not require our internet services.

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
		Copper	n/a n/a		n/a	n/a	n/a
	0	Сор	n/a n/a		n/a	n/a	n/a
	U	Fiber	n/a n/a		n/a	n/a	n/a
		Fik	n/a n/a		n/a	n/a	n/a
	ered	Copper	n/a n/a		n/a	1 X TP-Link TL-SG1005P	n/a
	1-4 non-tethered	Сор	n/a n/a		n/a	1 X TP-Link TL-SG1005P	n/a
	-uou	Fiber	n/a n/a		n/a	n/a	n/a
	1-4	罪	n/a n/a		n/a	1 X TP-Link TL-SG1005P	n/a
	þ	Copper	n/a n/a		n/a	n/a	n/a
0	there	Сор	n/a n/a		n/a	1 X TP-Link TL-SG108PE	n/a
	1-4 tethered	Fiber	n/a n/a		n/a	n/a	n/a
	1.		n/a n/a		n/a	1 X TP-Link TL-SG108PE	n/a
	red	Copper	n/a n/a		n/a	n/a	n/a
	≤8 non-tethered	Сор	n/a n/a		n/a	2 X TP-Link TL-SG1005P	n/a
	non-t	Fiber	n/a n/a		n/a	n/a	n/a
	- 8≥	Fik	n/a n/a		n/a	2 X TP-Link TL-SG1005P	n/a
	q	Copper	n/a n/a		n/a	2 X TP-Link TL-SG108PE	n/a
	≤8 tethered	Сор	n/a n/a		n/a	2 X TP-Link TL-SG108PE	n/a
	8 tet	Fiber	n/a n/a		n/a	n/a	n/a
	VI	Fik	n/a n/a		n/a	2 X TP-Link TL-SG108PE	n/a

Voice Only Customer Configurations Cont.

Note: These are builds for sites that do not require our internet services.

Carrier	Phone	Medium	Speeds	Router	SFP	Switch	Adtran
	ъ	Copper	≤ 100Mbps	n/a	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
	here	S	> 100 Mbps - 1 Gbps	n/a	n/a	1 X Cisco Catalyst 3750X-48P-S	n/a
	>8 tethered	Fiber	≤ 100Mbps	n/a	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
	^	볊	> 100 Mbps - 1 Gbps	n/a	n/a	1 X Cisco Catalyst 3750X-48P-S	n/a
	red	Copper	≤ 100Mbps	n/a	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
0	-tethered	S	> 100 Mbps - 1 Gbps	n/a	n/a	1 X Cisco Catalyst 3750X-48P-S	n/a
	non-t	Fiber	≤ 100Mbps	n/a	n/a	1 X Cisco Catalyst 3750-48P-S	n/a
	× ÿ	ij	> 100 Mbps - 1 Gbps	n/a	n/a	1 X Cisco Catalyst 3750X-48P-S	n/a
		Copper	n/a	n/a	n/a	n/a	1 X Adtran Gen 2 4242908L1
	_	Co	n/a	n/a	n/a	n/a	1 X Adtran Gen 2 4242908L1
	SIP	Fiber	n/a	n/a	n/a	n/a	1 X Adtran Gen 2 4242908L1
		Fib	n/a	n/a	n/a	n/a	1 X Adtran Gen 2 4242908L1

Change Log

Date	Notes
9/17/2021	Consolidated all speeds under 1 Gbps and updated the router. Consolidated all Speeds 1 Gbps and above and updated the
	router.
9/21/2021	Removed switches from SIP and Hardware Module Column. Added SFP for Client Hand-off
11/18/2021	Added two pages to cover voice only clients.
9/2/2022	Added SFP info for circuits ≥ 2Gbps
9/25/2023	Updated switch descriptions to match circuit sizes
2/26/2024	Added device dimensions
12/5/2024	Added new router availablility for CCR 2116-12G-4S+
	9/17/2021 9/21/2021 11/18/2021 9/2/2022 9/25/2023 2/26/2024